

| SUPPLIER | CODE | SUPPLIER STRENGTHS | FRANCHISE | BI-POLAR | MOS FET | LDMOS | FREQUENCY | WEB SITE | TYPICAL MARKETS/APPLICATION |
|-----------|------|-------------------------------|--------------------------------|----------|---------|-------|------------------|--------------------------|---|
| Ericsson | EC | LDMOS | Worldwide, except China, Japan | X | | X | 1 MHz - 2.2 GHz | www.ericsson.com/rfpower | Telecommunications & Broadcast |
| GHZ | GZ | Bipolar, custom applications | Worldwide | X | | TBD | 1 MHz - 3 GHz | www.ghz.com | Avionics, Broadcast, Defense, Radar |
| M/A COM | MW | RF MOSFETs | North America, Canada, Japan | X | X | | 30 MHz - 3.5 GHz | www.macom.com | Radar, Avionics |
| Microsemi | MY | Bipolar supplier | Worldwide | X | X | TBD | 2 MHz - 4 GHz | www.microsemi.com | Telecommunications, Industrial, Military, Avionics |
| Motorola | MO | Market Leader | Worldwide | X | X | X | 1 MHz - 2.4 GHz | www.motorola.com/sps/rf | Base Stations, Telecommunications, Broadcast, Avionics |
| Semelab | SB | Drop in for Polyfet & Point 9 | Worldwide | | X | TBD | 1 MHz - 2 GHz | www.semelab.co.uk | Base Stations, DAB, Medical Electronics, EMC Test Equip |
| Stanford | SF | LDMOS | Worldwide | | | X | 1 GHz - 2.4 GHz | www.stanfordmicro.com | Base Stations |
| ST | SM | Developing plastic LDMOS | North America, Canada, Europe | X | X | X | 30 MHz - 3.0 GHz | www.st.com | Broadcast, Radar, Avionics, Telecommunications |

The Selection Guide is organized by application. The applications are:

HF: 1 - 30 MHz

VHF: 30 - 300 MHz

UHF: 300 - 1000 MHz

VHF-UHF TV LINEAR: VHF TV 55-88 MHz, 174-225 MHz UHF TV: 470 - 860MHz

GENERAL PURPOSE

CELLULAR, GSM, PAGING: Cellular 840 - 880 MHz GSM: 925 - 960 MHz, Paging: 928-932 MHz

PDC, DAB, SATCOM, TELEMETRY

PCS, DCS, WLL, GSM 1800, GSM 1900: PCS - 1800-1990 MHz

3G, WCDMA, UMTS, CDMA2000 - 2100-2200 MHz

AVIONICS-DME, IFF - 960-1215 MHz

AVIONICS-JTIDS, TACAN, MODE-S - 960-1215 MHz

AVIONICS- S BAND - 2700-3500 MHz

CATV - 50-1000 MHz

AMPLIFIER MODULES

**HF
TRANSISTORS**

BIPOLARS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| GZ | S175-50 | 2-30 | 175 | 17 | 50 | | 65 | C | |
| GZ | S200-50 | 2-30 | 200 | 12 | 50 | | 60 | C | |
| MY | MS1227 | 2-30 | 20 | 15 | 12.5 | -30 | | C | Tested Class C |
| MY | MS1001 | 2-30 | 75 | 13 | 12.5 | -32 | | C | Tested Class C |
| MY | MS1051 | 2-30 | 100 | 11 | 12.5 | -30 | | AB | |
| MY | MS1226 | 2-30 | 50 | 16 | 28 | -28 | | C | Tested Class C |
| MY | MS1000 | 2-30 | 125 | 15 | 28 | -30 | | C | Tested Class C |
| MY | MS1077 | 2-30 | 130 | 12 | 28 | -30 | | AB | |
| MY | MS1078 | 2-30 | 220 | 12 | 28 | -30 | | AB | |
| MY | MS1005 | 2-30 | 200 | 16 | 40 | -30 | | AB | |
| MY | MS1006 | 2-30 | 75 | 14 | 50 | -30 | | AB | |
| MY | MS1007 | 2-30 | 150 | 14 | 50 | -30 | | AB | |
| MY | MS1079 | 2-30 | 220 | 13 | 50 | -30 | | AB | |
| MY | MS1004 | 2-30 | 250 | 13.5 | 50 | -30 | | AB | |
| SM | SD1405 | 2-30 | 75 | 13 | 12.5 | -32 | | AB | Tested Class C |
| SM | SD1487 | 2-30 | 100 | 11 | 12.5 | -30 | | AB | |
| SM | SD1407 | 2-30 | 125 | 15 | 28 | -30 | | AB | Tested Class C |
| SM | SD1729/TH416 | 2-30 | 130 | 12 | 28 | -30 | 37 | AB | Tested Class C |
| SM | SD1730/TH560 | 2-30 | 220 | 12 | 28 | -30 | 40 | AB | |
| SM | SD1411 | 2-30 | 200 | 16 | 40 | -30 | | AB | |
| SM | SD1733/TH513 | 2-30 | 75 | 14 | 50 | -30 | 37 | AB | |
| SM | SD1726/THA15 | 2-30 | 150 | 14 | 50 | -30 | 37 | AB | |
| SM | SD1727/THX15 | 2-30 | 150 | 14 | 50 | -30 | 37 | AB | |
| SM | SD1731/TH562 | 2-30 | 220 | 13 | 50 | -30 | 40 | AB | |
| SM | SD1731-14 | 2-30 | 250 | 12 | 50 | -30 | | AB | |
| SM | SD1728/TH430 | 2-30 | 250 | 14.5 | 50 | -30 | 40 | AB | |

MOSFETS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| MO | MRF154 | 2-100 | 600 | 17 | 50 | -25 | 45 | AB | unmatched |
| MO | MRF157 | 2-100 | 600 | 20 | 50 | -25 | 45 | AB | unmatched |
| MO | MRF150 | 2-150 | 150 | 17 | 50 | -32 | | AB | unmatched |
| MO | MRF141G | 2-175 | 300 | 13 | 28 | | 55 | AB | unmatched |
| MO | MRF151 | 2-175 | 150 | 13 | 50 | | 45 | AB | unmatched |
| MO | MRF151G | 2-175 | 300 | 16 | 50 | | 55 | AB | unmatched |
| MO | MRF148A | 2-225 | 30 | 18 | 50 | -35 | 55 | AB | unmatched |
| MO | MRF134 | 30-225 | 5 | 14 | 28 | | 55 | AB | unmatched |
| MO | MRF136 | 30-225 | 15 | 16 | 28 | | 60 | AB | unmatched |
| MO | MRF171A | 30-225 | 45 | 19.5 | 28 | -32 | 65 | AB | unmatched |
| MO | MRF173 | 30-225 | 80 | 13 | 28 | | 65 | AB | unmatched |
| MO | MRF174 | 30-225 | 125 | 11.8 | 28 | | 60 | AB | unmatched |

**VHF
TRANSISTORS
(FM Broadcast, Mobile Radio, etc)**

LDMOS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|----------|-------|---|
| MO | MRF1511T1 | 135-175 | 8 | 11.5 | 7.5 | 55 | AB | T Suffix - Tape & Reel - reel of 1000 (unmatched) |
| MO | MRF1550T1 | 135-175 | 50 | 10 | 12.5 | 50 | AB | T Suffix - Tape & Reel - reel of 1000 |
| MO | MRF1535T1 | 135-520 | 35 | 10.5 | 12.5 | 55 | AB | T Suffix - Tape & Reel - reel of 1000 |
| MO | MRF1513T1 | 400-520 | 3 | 11 | 12.5 | 55 | AB | T Suffix - Tape & Reel - reel of 1000 (unmatched) |
| MO | MRF1518T1 | 400-520 | 8 | 11 | 12.5 | 55 | AB | T Suffix - Tape & Reel - reel of 1000 (unmatched) |
| MO | MRF1517T1 | 430-520 | 8 | 11 | 7.5 | 55 | AB | T Suffix - Tape & Reel - reel of 1000 (unmatched) |

BIPOLARS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Comment |
|-------|--------------|------------------|----------------|------------|-------------------|----------|-------|---------|
| MY | MS1403 | 136-175 | 1.4 | 11.5 | 7.5 | | C | |
| MY | MS1401 | 136-175 | 2.5 | 11 | 7.5 | | C | |
| MY | MS1504 | 136-175 | 30 | 10 | 13.6 | | C | |
| MY | MS1506 | 136-175 | 40 | 9 | 13.6 | | C | |
| MY | SD1012 | 136-175 | 4 | 12 | 12.5 | 50 | C | |
| MY | SD1012-03 | 136-175 | 6 | 9 | 12.5 | 50 | C | |
| MY | SD1272 | 136-175 | 25 | 9.2 | 12.5 | | C | |
| MY | SD1018 | 136-175 | 40 | 4.5 | 12.5 | 70 | C | |
| MY | SD1251 | 136-175 | 45 | 6.5 | 12.5 | 50 | C | |
| MY | MS1003 | 136-175 | 100 | 6 | 12.5 | | C | |
| MY | SD1070 | 136-175 | 13.5 | 5.8 | 28 | 70 | C | |
| MY | SD1224 | 136-175 | 40 | 7.6 | 28 | 60 | C | |
| MY | SD1009 | 136-175 | 125 | 9.2 | 28 | 55 | C | |
| SM | SD1446 | 27-88 | 70 | 10 | 12.5 | 55 | C | |
| SM | SD1405 | 27-88 | 50 | 12 | 12.5 | | C | |
| SM | SD1726/THA15 | 27-88 | 150 | 9 | 50 | | C | |
| SM | SD1727/THX15 | 27-88 | 150 | 9 | 50 | | C | |
| SM | SD1728/TH430 | 27-88 | 250 | 10 | 50 | | C | |

BIPOLARS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|------------------|--------------|----------------------------------|
| SM | SD1457 | 88-108 | 75 | 10 | 28 | | | |
| SM | SD1460 | 88-108 | 150 | 9.2 | 28 | | | |
| SM | SD1274 | 136-175 | 30 | 10 | 13.6 | | C | |
| SM | SD1274-01 | 136-175 | 30 | 10 | 13.6 | | C | |
| SM | SD1275 | 136-175 | 40 | 9 | 13.6 | | C | |
| SM | SD1275-01 | 136-175 | 40 | 9 | 13.6 | | C | |
| SM | SD1477 | 136-175 | 100 | 6 | 12.5 | | C | |
| SM | SD1480 | 136-175 | 125 | 9.2 | 28 | 55 | C | |
| MO | MHL8115 | 40-1000 | 1 | 17.5 | 15 | | A | Wideband Linear Amplifier Module |
| MO | MHL8118 | 40-1000 | 1 | 17.5 | 28 | | A | Wideband Linear Amplifier Module |

MOSFETS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|------------------|--------------|----------------|
| MO | MRF154 | 2-100 | 600 | 17 | 50 | 45 | AB | unmatched |
| MO | MRF157 | 2-100 | 600 | 20 | 50 | 45 | AB | unmatched |
| MO | MRF150 | 2-150 | 150 | 17 | 50 | | AB | unmatched |
| MO | MRF141 | 2-175 | 150 | 10 | 28 | 55 | AB | unmatched |
| MO | MRF141G | 2-175 | 300 | 13 | 28 | 55 | AB | unmatched |
| MO | MRF151 | 2-175 | 150 | 13 | 50 | 45 | AB | unmatched |
| MO | MRF151G | 2-175 | 300 | 16 | 50 | 55 | AB | unmatched |
| MO | MRF148A | 2-225 | 30 | 18 | 50 | 55 | AB | unmatched |
| MO | MRF134 | 30-225 | 5 | 14 | 28 | 55 | AB | unmatched |
| MO | MRF136 | 30-225 | 15 | 16 | 28 | 60 | AB | unmatched |
| MO | MRF171A | 30-225 | 45 | 19.5 | 28 | 65 | AB | unmatched |
| MO | MRF173 | 30-225 | 80 | 13 | 28 | 65 | AB | unmatched |
| MO | MRF174 | 30-225 | 125 | 11.8 | 28 | 60 | AB | unmatched |

MOSFETS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|------------------|--------------|---------------------------------|
| MO | MRF158 | 30-512 | 2 | 17.5 | 28 | 52 | AB | unmatched |
| MO | MRF160 | 30-512 | 4 | 17 | 28 | 55 | AB | unmatched |
| MO | MRF166C | 30-512 | 20 | 16 | 28 | 55 | AB | unmatched |
| MO | MRF166W | 30-512 | 40 | 16 | 28 | 55 | AB | unmatched |
| MO | MRF177 | 100-400 | 100 | 12 | 28 | 60 | AB | unmatched |
| MO | MRF275L | 150-512 | 100 | 8.8 | 28 | 55 | AB | unmatched |
| MO | MRF275G | 150-512 | 150 | 11.2 | 28 | 55 | AB | unmatched |
| MW | DU1215S | 2-175 | 15 | 9.5 | 12 | 60 | AB | Not recommended for new designs |
| MW | DU1230S | 2-175 | 30 | 10 | 12 | 60 | AB | Not recommended for new designs |
| MW | DU1260T | 2-175 | 60 | 8 | 12 | 60 | AB | |
| MW | DU2805S | 2-175 | 5 | 11 | 28 | 55 | AB | Not recommended for new designs |
| MW | DU2810S | 2-175 | 10 | 13 | 28 | 55 | AB | |
| MW | DU2820S | 2-175 | 20 | 13 | 28 | 60 | AB | |
| MW | DU2840S | 2-175 | 40 | 13 | 28 | 60 | AB | |
| MW | DU2840V | 2-175 | 40 | 13 | 28 | 60 | AB | |
| MW | DU2860U | 2-175 | 60 | 13 | 28 | 60 | AB | |
| MW | DU2860T | 2-175 | 60 | 13 | 28 | 60 | AB | |
| MW | DU2880T | 2-175 | 80 | 13 | 28 | 60 | AB | |
| MW | DU2880U | 2-175 | 80 | 13 | 28 | 60 | AB | |
| MW | DU2880V | 2-175 | 80 | 13 | 28 | 60 | AB | |
| MW | DU28120T | 2-175 | 120 | 13 | 28 | 60 | AB | Not recommended for new designs |
| MW | DU28120V | 2-175 | 120 | 13 | 28 | 60 | AB | Not recommended for new designs |
| MW | DU28200M | 2-175 | 200 | 13 | 28 | 55 | AB | |
| MW | UF2801K1 | 100-500 | 1 | 10 | 28 | 45 | AB | |
| MW | UF2805B | 100-500 | 5 | 10 | 28 | 50 | AB | |
| MW | UF2810P | 100-500 | 10 | 10 | 28 | 50 | AB | |
| MW | UF2815B | 100-500 | 15 | 10 | 28 | 50 | AB | |
| MW | UF2820P | 100-500 | 20 | 10 | 28 | 50 | AB | |
| MW | UF2820R | 100-500 | 20 | 10 | 28 | 50 | AB | |
| MW | UF2840G | 100-500 | 40 | 10 | 28 | 50 | AB | |
| MW | UF2840P | 100-500 | 40 | 10 | 28 | 50 | AB | |

MOSFETS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|------------------|--------------|----------------|
| MW | UF28100H | 100-500 | 100 | 10 | 28 | 50 | AB | |
| MW | UF28100M | 100-500 | 100 | 10 | 28 | 50 | AB | |
| MW | UF28100V | 100-500 | 100 | 10 | 28 | 50 | AB | |
| MW | UF28150J | 100-500 | 150 | 8 | 28 | 55 | AB | |
| SB | D1210UK | 2-175 | 10 | 10 | 12.5 | 50 | AB | |
| SB | D1260UK | 2-175 | 60 | 10 | 12.5 | 50 | AB | |
| SB | D1001UK | 2-175 | 20 | 16 | 28 | 50 | AB | |
| SB | D1019UK | 2-175 | 20 | 16 | 28 | 50 | AB | |
| SB | D1002UK | 2-175 | 40 | 16 | 28 | 50 | AB | |
| SB | D1003UK | 2-175 | 60 | 16 | 28 | 50 | AB | |
| SB | D1023UK | 2-175 | 60 | 16 | 28 | 50 | AB | |
| SB | D1004UK | 2-175 | 80 | 16 | 28 | 50 | AB | |
| SB | D1005UK | 2-175 | 80 | 16 | 28 | 50 | AB | |
| SB | D1006UK | 2-175 | 120 | 14 | 28 | 50 | AB | |
| SB | D1082UK | 2-200 | 4 | 13 | 28 | 40 | AB | |
| SB | D1083UK | 2-200 | 4 | 13 | 28 | 40 | AB | |
| SB | D1084UK | 2-200 | 4 | 13 | 28 | 40 | AB | |
| SB | D1017UK | 2-200 | 150 | 13 | 28 | 50 | AB | |
| SB | D1027UK | 2-200 | 150 | 13 | 28 | 50 | AB | |
| SB | D1028UK | 2-200 | 300 | 13 | 28 | 60 | AB | |
| SB | D1029UK | 2-200 | 350 | 13 | 28 | 60 | AB | |
| SB | D1014UK | 100-400 | 20 | 13 | 28 | 60 | AB | |
| SB | D1015UK | 100-400 | 125 | 13 | 28 | 50 | AB | |
| SB | D1020UK | 100-400 | 150 | 10 | 28 | 50 | AB | |
| SB | D1021UK | 100-400 | 125 | 13 | 28 | 50 | AB | |
| SB | D1201UK | 100-500 | 10 | 10 | 12.5 | 50 | AB | |
| SB | D1202UK | 100-500 | 20 | 10 | 12.5 | 50 | AB | |
| SB | D1203UK | 100-500 | 30 | 10 | 12.5 | 50 | AB | |
| SB | D1207UK | 100-500 | 20 | 10 | 12.5 | 50 | AB | |
| SB | D1208UK | 100-500 | 40 | 10 | 12.5 | 50 | AB | |

MOSFETS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|------------------|--------------|---|
| SB | D1211UK | 100-500 | 10 | 10 | 12.5 | 50 | AB | |
| SB | D1212UK | 100-500 | 100 | 10 | 12.5 | 50 | AB | |
| SB | D1007UK | 100-500 | 20 | 13 | 28 | 50 | AB | |
| SB | D1008UK | 100-500 | 40 | 13 | 28 | 50 | AB | |
| SB | D1009UK | 100-500 | 150 | 8 | 28 | 50 | AB | |
| SB | D1010UK | 100-500 | 125 | 10 | 28 | 60 | AB | |
| SB | D1012UK | 100-500 | 100 | 10 | 28 | 50 | AB | |
| SB | D1013UK | 100-500 | 10 | 13 | 28 | 50 | AB | |
| SB | D1018UK | 100-500 | 100 | 10 | 28 | 50 | AB | |
| SB | D1022UK | 100-500 | 100 | 10 | 28 | 50 | AB | |
| SB | D1213UK | 1-1000 | 6 | 10 | 7.2 | 50 | AB | |
| SB | D1204UK | 2-1000 | 30 | 10 | 12.5 | 50 | AB | |
| SM | SD2918 | 2-30 | 30 | 18 | 50 | 50 | AB | In Production |
| SM | SD2933 | 2-30 | 300 | 20 | 50 | 50 | AB | In Production/replacement for SD2923 |
| SM | SD2922 | 2-175 | 300 | 13 | 50 | 50 | AB | |
| SM | SD2931 | 2-175 | 150 | 14 | 50 | 55 | AB | In Production |
| SM | SD2931-10 | 2-175 | 150 | 14 | 50 | 55 | AB | In Production |
| SM | SD2932 | 2-175 | 300 | 15 | 50 | 50 | AB | In Production |
| SM | SD2900 | 2-400 | 5 | 13.5 | 28 | 45 | AB | In Production |
| SM | SD2902 | 2-400 | 15 | 12.5 | 28 | 45 | AB | In Production |
| SM | SD2903 | 2-400 | 30 | 13 | 28 | 45 | AB | In Production |
| SM | SD2904 | 2-400 | 30 | 10 | 28 | 45 | AB | In Production |
| SB | LMP1603 | 150-162 | 5.5 | 37.4 | 7.2 | 38 | | Amplifier Module |
| SB | LMP2003 | 220-222 | 5.5 | 37.4 | 7.2 | 38 | | Amplifier Module |

**UHF
TRANSISTORS**
(Mobile Radio, Wideband Comm., Telecom, etc)

LDMOS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-----------|---------------------|------------------|----------------|-------------|-------------------|------------|-------------|-----------|--|
| EC | PTF10193 | 860-960 | 12 | 18 | 26 | -30 | 60 | AB | |
| EC | PTF10019 | 860-900 | 70 | 13 | 28 | -30 | 50 | AB | INPUT MATCHED |
| EC | PTF10036 | 860-960 | 85 | 11 | 28 | -30 | 55 | AB | ~MRF185 |
| EC | PTF10020 | 860-960 | 125 | 11 | 28 | -30 | 55 | AB | PUSH PULL |
| EC | PTF10100 | 860-900 | 165 | 12 | 28 | -30 | 50 | AB | INPUT MATCHED |
| EC | PTF10136 | 1000 | 6 | 18.5 | 28 | -22 | 57 | AB | SURFACE MOUNT |
| EC | PTF10137 | 1000 | 12 | 18 | 28 | -24 | 60 | AB | SURFACE MOUNT |
| EC | PTF10007 | 1000 | 35 | 12 | 28 | -30 | 55 | AB | ~MRF182 |
| EC | PTF10031 | 1000 | 50 | 12 | 28 | -30 | 55 | AB | ~MRF183 |
| EC | PTF10015 | 1000 | 50 | 12 | 28 | -30 | 55 | AB | ~MRF183S |
| EC | PTF10138 | 1000 | 60 | 11 | 28 | -30 | 55 | AB | ~MRF184 |
| EC | PTF10009 | 1000 | 85 | 12 | 28 | -30 | 50 | AB | PUSH PULL |
| MO | MRF1535-T1 | 135-520 | 35 | 10.5 | 12.5 | | 55 | AB | T Suffix - Tape & Reel - reel of 1000 |
| MO | MRF373 | 470-1000 | 60 | 14.7 | 28 | | 54 | AB | unmatched |
| MO | MRF374 | 470-1000 | 100pep | 13.5 | 28 | | 36 | AB | unmatched |
| MO | MRF6522-5R1 | 800-1000 | 5cw | 19 | 26 | | 55 | AB | R1 - Tape & Reel - 500 (unmatched) |
| MO | MRF6522-10R1 | 800-1000 | 10cw | 17 | 26 | | 55 | AB | R1 - Tape & Reel - 500 (unmatched) |
| MO | MRF6522-70 | 800-1000 | 70 | 16 | 26 | | 55 | AB | matched |
| MO | MRF187 | 800-1000 | 85pep | 13 | 26 | -28 | 33 | AB | matched |
| MO | MRF181SR1 | 800-1000 | 7.5pep | 17 | 28 | | 32.5 | AB | R1 - Tape & Reel - 500 (unmatched) |
| MO | MRF182 | 800-1000 | 30cw | 14 | 28 | | 58 | AB | Obsolete; Recommend MRF9060 |
| SM | PD54003 | 380-520 | 3 | 11 | 7.5 | | 50 | AB | Avail. in straight lead version--add 's' suffix |
| SM | PD54008 | 380-520 | 8 | 11 | 7.5 | | 45 | AB | Avail. in straight lead version--add 's' suffix |
| SM | PD55003 | 380-520 | 3 | 15 | 12.5 | | 55 | AB | IN DEVELOPMENT |
| SM | PD55008 | 380-520 | 8 | 15 | 12.5 | | 53 | AB | Avail. in straight lead version--add 's' suffix |
| SM | PD55015 | 380-520 | 15 | 14 | 12.5 | | 50 | AB | Avail. in straight lead version--add 's' suffix |

LDMOS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---|
| SM | PD57018 | 800-960 | 18 | 13 | 28 | | 55 | AB | In Development-straight lead version-add 's' suffix |
| SM | SD5730/01 | 800-960 | 30 | 12 | 28 | | 50 | AB | In Development |
| SM | SD57045 | 800-960 | 45 | 12 | 28 | | 50 | AB | Samples Available |
| SM | SD5760/01 | 800-960 | 60 | 12 | 28 | | 50 | AB | In Development |
| SM | SD57085 | 800-960 | 85 | 11 | 28 | | 45 | AB | In Development |
| SM | SD57120 | 800-960 | 120 | 10 | 28 | | 45 | AB | Samples Available |
| SM | SD57170 | 800-960 | 170 | 10 | 28 | | 45 | AB | In Development |

BIPOLARS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| EC | PTB20204 | 380-500 | 1 | 12.5 | 24 | -40 | | A | |
| EC | PTB20200 | 380-500 | 30 | 10 | 24 | -30 | 50 | AB | |
| EC | PTB20030 | 420-470 | 15 | 11 | 24 | -28 | 50 | AB | |
| EC | PTB20031 | 420-470 | 40 | 8 | 24 | -22 | 50 | AB | |
| GZ | 0104-100 | 100-500 | 100 | 7 | 28 | | 50 | C | |
| GZ | 0105-12 | 100-500 | 12 | 7.8 | 28 | | 60 | C | |
| GZ | 0105-50 | 100-500 | 50 | 8.5 | 28 | | 55 | C | |
| GZ | 0105-100 | 100-500 | 100 | 6.2 | 28 | | 50 | C | |
| GZ | C1-28 | 225-400 | 1 | 10 | 28 | | 65 | C | |
| GZ | UMIL3 | 225-400 | 3 | 12 | 28 | | 60 | C | |
| GZ | UMIL10 | 225-400 | 10 | 10 | 28 | | 60 | C | |
| GZ | UMIL25 | 225-400 | 25 | 8.9 | 28 | | 50 | C | |
| GZ | UMIL60 | 225-400 | 60 | 8.8 | 28 | | 60 | C | |
| GZ | UMIL70 | 225-400 | 70 | 8.5 | 28 | | 60 | C | |
| GZ | UMIL80 | 225-400 | 80 | 9 | 28 | | 60 | C | |
| GZ | UMIL100 | 225-400 | 100 | 7.2 | 28 | | 55 | C | |
| GZ | UMIL100A | 225-400 | 100 | 7.2 | 28 | | 55 | C | |
| GZ | 0204-125 | 225-400 | 125 | 8.5 | 28 | | 60 | C | |
| MO | MRF392 | 100-400 | 125 | 8 | 28 | | 55 | C | matched |
| MO | MRF393 | 100-512 | 100 | 7.5 | 28 | | 55 | C | matched |
| MY | MS1509 | 100-500 | 100 | 5.5 | 28 | | 55 | C | |

BIPOLARS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| MY | SD1050 | 225-400 | 3 | 4.7 | 28 | | 40 | C | |
| MY | SD4012 | 225-400 | 3 | 11.7 | 28 | | 60 | C | |
| MY | SD1060 | 225-400 | 5 | 4.7 | 28 | | 45 | C | |
| MY | SD1075 | 225-400 | 10 | 4 | 28 | | 45 | C | |
| MY | MS1633 | 225-400 | 15 | 4.7 | 28 | | 50 | C | |
| MY | MS1527 | 225-400 | 25 | 9 | 28 | | 50 | C | |
| MY | SD1462 | 225-400 | 70 | 9 | 28 | | 60 | C | |
| MY | MS1503 | 225-400 | 100 | 7 | 28 | | 60 | C | |
| MY | MS1508 | 225-400 | 125 | 7 | 28 | | 60 | C | |
| MY | SD1144 | 450-512 | 2 | 9 | 12.5 | | | C | |
| MY | MS1402 | 450-512 | 2 | 10 | 12.5 | | | C | |
| MY | MS1404 | 450-512 | 5 | 8.5 | 12.5 | | | C | |
| MY | MS1426 | 450-512 | 10 | 7 | 12.5 | | | C | |
| MY | SD1146 | 450-512 | 10 | 6 | 12.5 | | | C | |
| MY | SD1429 | 450-512 | 12 | 7.8 | 12.5 | | | C | |
| MY | SD1429-03 | 450-512 | 15 | 7.8 | 12.5 | | | C | |
| MY | SD1422 | 450-512 | 25 | 6.2 | 12.5 | | | C | |
| MY | MS1510 | 450-512 | 38 | 5.8 | 12.5 | | | C | |
| MY | MS1480 | 450-512 | 45 | 5 | 12.5 | | | C | |
| MY | MS3016 | 1000 | 2 | 10 | 28 | | | C | |
| MY | MS3017 | 1000 | 5 | 10 | 28 | | | C | |
| MY | MS3018 | 1000 | 10 | 10 | 28 | | | C | |
| MY | MS3019 | 1000 | 20 | 10 | 28 | | | C | |
| MY | MS3020 | 1400 | 2 | 10 | 28 | | | C | |
| MY | MSC81406 | 1400 | 6 | 9.7 | 28 | | | C | |
| MY | MS3021 | 1400 | 10 | 8.5 | 28 | | | C | |
| MY | MS3022 | 2000 | 1 | 7 | 28 | | | C | |
| MY | MS3023 | 2000 | 3 | 7.8 | 28 | | | C | |
| MY | MS3024 | 2000 | 5 | 7 | 28 | | | C | |
| MY | MS3025 | 2000 | 10 | 5 | 28 | | | C | |

BIPOLARS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| MY | MS3451 | 2300 | 1.8 | 10 | 22 | | | C | |
| MY | MS3452 | 2300 | 3.8 | 10 | 22 | | | C | |
| MY | MS3453 | 2300 | 5.5 | 9.6 | 22 | | | C | |
| MY | MS3454 | 2300 | 7 | 9.6 | 22 | | | C | |
| MY | MSC3000 | 3000 | 0.5 | 7 | 28 | | | C | |
| MY | MS3383 | 3000 | 1 | 7 | 28 | | | C | |
| MY | MS3384 | 3000 | 2.5 | 5 | 28 | | | C | |
| MY | MS3302 | 3000 | 4.5 | 4.5 | 28 | | | C | |
| MY | MSC4000 | 4000 | 0.5 | 5 | 28 | | | C | |
| MY | MSC4001 | 4000 | 1 | 5 | 28 | | | C | |
| MY | MSC4003 | 4000 | 2.5 | 5 | 28 | | | C | |
| SM | SD4013 | 225-400 | 25 | 9 | 28 | | 50 | C | |
| SM | SD1470 | 225-400 | 100 | 7 | 28 | | 60 | C | On LTB |
| SM | SD1463 | 225-400 | 125 | 7 | 28 | | 60 | C | |
| SM | SD1134 | 450-512 | 2 | 10 | 12.5 | | 55 | C | |
| SM | SD1135 | 450-512 | 5 | 8.5 | 12.5 | | 60 | C | |
| SM | SD1433 | 450-512 | 10 | 7 | 12.5 | | 60 | C | |
| SM | SD1488 | 450-512 | 38 | 5.8 | 12.5 | | 55 | C | |
| SM | SD1434 | 450-512 | 45 | 5 | 12.5 | | | C | |
| SM | SD1390 | 450-512 | 1.5 | 13 | 24 | | | A | |
| SM | SD1391 | 450-512 | 15 | 10.8 | 24 | | 50 | AB | |
| SM | SD1393 | 450-512 | 50 | 9 | 24 | | 60 | AB | |
| SM | MSC82100 | 1000 | 0.5 | 10.5 | 18 | | | A | |
| SM | MSC82040 | 1000 | 0.5 | 10.5 | 18 | | | A | |
| SM | MSC81090 | 1000 | 1 | - | 20 | | | C | |
| SM | SD5000 | 1000 | 1.5 | 9.5 | 20 | | | A | |
| SM | MSC81002 | 1000 | 2 | 10 | 28 | | | C | |
| SM | MSC81118 | 1000 | 2 | 10 | 28 | | | C | |
| SM | MSC81005 | 1000 | 5 | 10 | 28 | | | C | |
| SM | MSC81111 | 1000 | 5 | 10 | 28 | | | C | |
| SM | MSC81010 | 1000 | 10 | 10 | 28 | | | C | |
| SM | MSC81058 | 1000 | 10 | 10 | 28 | | | C | |

BIPOLARS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|-------|-----------------------|
| SM | MSC81020 | 1000 | 20 | 10 | 28 | C | |
| SM | MSC81402 | 1400 | 2 | 10 | 28 | C | |
| SM | MSC80195 | 2000 | 0.75 | 7.5 | 18 | A | |
| SM | MSC80185 | 2000 | 0.75 | 7.5 | 18 | A | |
| SM | MSC80196 | 2000 | 1 | 7 | 18 | A | |
| SM | MSC80186 | 2000 | 1 | 7 | 18 | A | |
| SM | MSC80197 | 2000 | 1.5 | 6 | 18 | A | |
| SM | MSC82001 | 2000 | 1 | 7 | 28 | C | |
| SM | MSC82003 | 2000 | 3 | 7.8 | 28 | C | |
| SM | MSC82005 | 2000 | 5 | 7 | 28 | C | |
| SM | MSC82010 | 2000 | 10 | 5 | 28 | C | |
| SM | MSC82302 | 2300 | 1.8 | 10 | 22 | C | |
| SM | MSC82304 | 2300 | 3.8 | 10 | 22 | C | |
| SM | MSC82306 | 2300 | 5.5 | 9.6 | 22 | C | |
| SM | MSC82307 | 2300 | 7 | 9.6 | 22 | C | |
| SM | MSC83301 | 3000 | 1 | 7 | 28 | C | |
| SM | MSC83303 | 3000 | 2.5 | 5 | 28 | C | |
| SM | MSC83305 | 3000 | 4.5 | 4.5 | 28 | C | |
| MO | MHL8115 | 40-1000 | 1 | 17.5 | 15 | A | near Amplifier Module |
| MO | MHL8118 | 40-1000 | 1 | 17.5 | 28 | A | near Amplifier Module |

MOSFETS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|----------------|
| MO | MRF136Y | 10-400 | 30 | 14 | 28 | | 54 | AB | LTB 10/2/2000 |
| MO | MRF137 | 10-400 | 30 | 13 | 28 | | 60 | AB | LTB 12/31/2002 |
| MO | MRF177 | 100-400 | 100 | 12 | 28 | | 60 | AB | |
| MO | MRF158 | 30-512 | 2 | 17.5 | 28 | | 52 | AB | unmatched |
| MO | MRF160 | 30-512 | 4 | 17 | 28 | | 55 | AB | unmatched |
| MO | MRF166C | 30-512 | 20 | 16 | 28 | | 55 | AB | unmatched |

UHF

MOSFETS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| MO | MRF166W | 30-512 | 40 | 16 | 28 | | 55 | AB | unmatched |
| MO | MRF177 | 100-400 | 100 | 12 | 28 | | 60 | AB | unmatched |
| MO | MRF275L | 150-512 | 100 | 8.8 | 28 | | 55 | AB | unmatched |
| MO | MRF275G | 150-512 | 150 | 11.2 | 28 | | 55 | AB | unmatched |
| MW | UF2801K1 | 100-500 | 1 | 10 | 28 | | 45 | AB | |
| MW | UF2805B | 100-500 | 5 | 10 | 28 | | 50 | AB | |
| MW | UF2810P | 100-500 | 10 | 10 | 28 | | 50 | AB | |
| MW | UF2815B | 100-500 | 15 | 10 | 28 | | 50 | AB | |
| MW | UF2820P | 100-500 | 20 | 10 | 28 | | 50 | AB | |
| MW | UF2820R | 100-500 | 20 | 10 | 28 | | 50 | AB | |
| MW | UF2840G | 100-500 | 40 | 10 | 28 | | 50 | AB | |
| MW | UF2840P | 100-500 | 40 | 10 | 28 | | 50 | AB | |
| MW | UF28100H | 100-500 | 100 | 10 | 28 | | 50 | AB | |
| MW | UF28100M | 100-500 | 100 | 10 | 28 | | 50 | AB | |
| MW | UF28100V | 100-500 | 100 | 10 | 28 | | 50 | AB | |
| MW | UF28150J | 100-500 | 150 | 8 | 28 | | 55 | AB | |
| MW | LF2802A | 500-1000 | 2 | 10 | 28 | | 40 | AB | |
| MW | LF2805A | 500-1000 | 5 | 10 | 28 | | 50 | AB | |
| MW | LF2810A | 500-1000 | 10 | 10 | 28 | | 50 | AB | |
| SB | D1209UK | 1-500 | 20 | 10 | 12.5 | | 50 | AB | |
| SB | D1014UK | 100-400 | 20 | 13 | 28 | | 60 | AB | |
| SB | D1015UK | 100-400 | 125 | 13 | 28 | | 50 | AB | |
| SB | D1021UK | 100-400 | 125 | 13 | 28 | | 50 | AB | |
| SB | D1020UK | 100-400 | 150 | 10 | 28 | | 50 | AB | |
| SB | D1201UK | 100-500 | 10 | 10 | 12.5 | | 50 | AB | |
| SB | D1211UK | 100-500 | 10 | 10 | 12.5 | | 50 | AB | |
| SB | D1202UK | 100-500 | 20 | 10 | 12.5 | | 50 | AB | |
| SB | D1203UK | 100-500 | 30 | 10 | 12.5 | | 50 | AB | |
| SB | D1207UK | 100-500 | 20 | 10 | 12.5 | | 50 | AB | |
| SB | D1208UK | 100-500 | 40 | 10 | 12.5 | | 50 | AB | |

MOSFETS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| SB | D1212UK | 100-500 | 100 | 10 | 12.5 | | 50 | AB | |
| SB | D1013UK | 100-500 | 10 | 13 | 28 | | 50 | AB | |
| SB | D1007UK | 100-500 | 20 | 13 | 28 | | 50 | AB | |
| SB | D1008UK | 100-500 | 40 | 13 | 28 | | 50 | AB | |
| SB | D1009UK | 100-500 | 150 | 8 | 28 | | 50 | AB | |
| SB | D1010UK | 100-500 | 125 | 10 | 28 | | 60 | AB | |
| SB | D1012UK | 100-500 | 100 | 10 | 28 | | 50 | AB | |
| SB | D1018UK | 100-500 | 100 | 10 | 28 | | 50 | AB | |
| SB | D1022UK | 100-500 | 100 | 10 | 28 | | 50 | AB | |
| SB | D2282UK | 1-1000 | 0.75 | 8 | 6 | | 40 | AB | |
| SB | D2224UK | 1-1000 | 5 | 7 | 7.2 | | 50 | AB | |
| SB | D1213UK | 1-1000 | 6 | 10 | 7.2 | | 50 | AB | |
| SB | D2211UK | 1-1000 | 10 | 7 | 7.2 | | 40 | AB | |
| SB | D2081UK | 1-1000 | 0.75 | 11 | 12 | | 40 | AB | |
| SB | D2229UK | 1-1000 | 2.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2201UK | 1-1000 | 2.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2232UK | 1-1000 | 5 | 7 | 12.5 | | 50 | AB | |
| SB | D2202UK | 1-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2225UK | 1-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2230UK | 1-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2253UK | 1-1000 | 5 | 13 | 12.5 | | 40 | AB | |
| SB | D2221UK | 1-1000 | 7.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2231UK | 1-1000 | 7.5 | 10 | 12.5 | | 40 | AB | |
| SB | D1231UK | 1-1000 | 10 | 10 | 12.5 | | 50 | AB | |
| SB | D2259UK | 1-1000 | 10 | 10 | 12.5 | | 40 | AB | |
| SB | D2293UK | 1-1000 | 10 | 11 | 12.5 | | 50 | AB | |
| SB | D2294UK | 1-1000 | 15 | 11 | 12.5 | | 50 | AB | |
| SB | D2210UK | 1-1000 | 20 | 10 | 12.5 | | 40 | AB | |
| SB | D2218UK | 1-1000 | 20 | 10 | 12.5 | | 40 | AB | |
| SB | D2213UK | 1-1000 | 20 | 10 | 12.5 | | 40 | AB | |
| SB | D1204UK | 1-1000 | 30 | 10 | 12.5 | | 50 | AB | |
| SB | D2029UK | 1-1000 | 2.5 | 13 | 28 | | 40 | AB | |
| SB | D2030UK | 1-1000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2005UK | 1-1000 | 7.5 | 13 | 28 | | 40 | AB | |
| SB | D2031UK | 1-1000 | 7.5 | 13 | 28 | | 40 | AB | |
| SB | D1011UK | 1-1000 | 10 | 13 | 28 | | 50 | AB | |

MOSFETS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| SB | D1031UK | 1-1000 | 10 | 13 | 28 | | 50 | AB | |
| SB | D1093UK | 1-1000 | 10 | 13 | 28 | | 50 | AB | |
| SB | D2006UK | 1-1000 | 15 | 13 | 28 | | 40 | AB | |
| SB | D1016UK | 1-1000 | 20 | 13 | 28 | | 50 | AB | |
| SB | D2010UK | 1-1000 | 20 | 10 | 28 | | 40 | AB | |
| SB | D1094UK | 1-1000 | 20 | 11 | 28 | | 50 | AB | |
| SB | D1053UK | 1-1000 | 50 | 7.5 | 28 | | 45 | AB | |
| SB | D2083UK | 1-1000 | 80 | 8 | 28 | | 40 | AB | |
| SB | D2084UK | 1-1000 | 100 | 8 | 28 | | 40 | AB | |
| SB | D2085UK | 1-1000 | 120 | 8 | 28 | | 40 | AB | |
| SB | D2053UK | 1000 | 5 | 13 | 28 | | | | |
| SB | D2054UK | 1000 | 10 | 13 | 28 | | | | |
| SB | D2219UK | 1-2000 | 2.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2203UK | 1-2000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2212UK | 1-2000 | 10 | 10 | 12.5 | | 40 | AB | |
| SB | D2220UK | 1-2000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2089UK | 1-2000 | 1 | 8 | 28 | | 40 | AB | |
| SB | D2001UK | 1-2000 | 2.5 | 13 | 28 | | 40 | AB | |
| SB | D2019UK | 1-2000 | 2.5 | 13 | 28 | | 40 | AB | |
| SB | D2002UK | 1-2000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2003UK | 1-2000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2020UK | 1-2000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2004UK | 1-2000 | 10 | 13 | 28 | | 40 | AB | |
| SB | D2012UK | 1-2000 | 10 | 10 | 28 | | 50 | AB | |
| SB | D2013UK | 1-2000 | 20 | 10 | 28 | | 50 | AB | |
| SB | D2082UK | 1-2000 | 40 | 8 | 28 | | 40 | AB | |

UHF PULSED RADAR APPLICATIONS

BIPOLARS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Pulse Width uSEC | Duty Cycle % |
|-----------------------------------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------------------|-----------------|
| GZ | UDR450 | 400-450 | 400 | 7.5 | 40 | | 60 | C | 60 | 2 |
| GZ | UDR500 | 400-450 | 500 | 8.5 | 40 | | 60 | C | 60 | 2 |
| (ALL COMMON EMITTER CONFIGURATON) | | | | | | | | | | |
| MY | MS2176 | 400-500 | 300 | 9.6 | 40 | | 50 | C | 250 | 10 |
| MY | MS2177 | 400-500 | 400 | 7 | 40 | | 50 | C | 60 | 2 |
| MY | MS2200 | 400-500 | 500 | 9.7 | 40 | | 50 | C | 250 | 10 |
| MY | SD1511-08 | 425 | 10 | 9.2 | 28 | | 50 | C | CW | CW |
| MY | SD1474 | 425 | 48 | 6.8 | 28 | | 50 | C | CW | CW |
| MY | AM0608-020 | 600-750 | 20 | 9 | 35 | | 40 | C | 10 | 1 |
| MY | AM0608-070 | 600-750 | 70 | 7.3 | 50 | | 35 | C | 10 | 1 |
| MY | MS2090 | 600-750 | 220 | 8.7 | 50 | | 40 | C | 10 | 1 |
| MY | MS2091 | 600-750 | 445 | 6.9 | 50 | | 40 | C | 10 | 1 |
| MY | AM0710-300 | 750-950 | 300 | 8.8 | 50 | | 40 | C | 10 | 10 |
| SM | SD1563 | 400-500 | 300 | 9.6 | 40 | | 50 | C | 250 | 10 |
| SM | SD1565 | 400-500 | 500 | 9.7 | 40 | | 50 | C | 250 | 10 |
| SM | AM0608-200 | 600-750 | 220 | 8.7 | 50 | | 40 | C | 10 | 1 |
| SM | AM0608-450 | 600-750 | 445 | 6.9 | 50 | | 40 | C | 10 | 1 |
| SM | AM80610-030 | 620-960 | 30 | 8.5 | 28 | | 50 | C | | CW |

FM BASE STATION

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|----------------------------|
| MY | MS1455 | 806-960 | 45 | 4.7 | 12.5 | | | | |
| MY | SD1400-02 | 806-960 | 14 | 9.7 | 24 | | 55 | C | Configuration: Common Base |
| MY | SD1496 | 806-960 | 60 | 7.5 | 24 | | 50 | C | Configuration: Common Base |
| MY | MS1553 | 806-960 | 60 | 7 | 24 | | 55 | C | Configuration: Common Base |
| MY | SD1400-03 | 806-960 | 14 | 9.5 | 24 | | 50 | C | Configuration: Common Base |
| MY | SD1495-03 | 806-960 | 30 | 7 | 24 | | 50 | C | Configuration: Common Base |
| MY | SD1496-03 | 806-960 | 55 | 7.4 | 24 | | 50 | C | Configuration: Common Base |

**VHF/UHF TV LINEAR
TRANSISTORS**

LDMOS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|----------------|
| EC | PTF10049 | 470-860 | 85 | 12 | 32 | -32 | 50 | AB | INT. MATCHED |
| EC | PTF10159 | 470-860 | 120 | 12 | 32/28 | -33 | 50 | AB | INT. MATCHED |
| MO | MRF373 | 470-1000 | 60 | 14.7 | 28 | | 54 | AB | unmatched |
| MO | MRF373S | 470-1000 | 60 | 14.7 | 28 | | 54 | AB | unmatched |
| MO | MRF374 | 470-1000 | 100pep | 13.5 | 28 | -31 | 36 | AB | unmatched |
| MO | MRF372 | 470-1000 | 180pep | 17 | 32 | -30 | 40 | AB | unmatched |
| MO | MRF376 | 470-1000 | 240 | 14 | 50 | | 55 | AB | In Development |

BIPOLARS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| GZ | VTV075 | 175-225 | 7.5 | 10 | 25 | -55 | 33 | A | |
| GZ | VTV150 | 175-225 | 15 | 8 | 25 | -55 | 33 | A | |
| GZ | VTV300 | 175-225 | 30 | 6 | 25 | -55 | 30 | A | |
| GZ | VTV1250 | 175-225 | 125 | 10 | 28 | | 60 | AB | |
| MY | MS1277 | 174-230 | 14 | 14 | 28 | -55 | | A | |
| MY | MS1279 | 174-230 | 20 | 8 | 28 | -55 | | A | |
| MY | MS1280 | 174-230 | 20 | 7.5 | 28 | -53 | | A | |
| MY | MS1278 | 174-230 | 100 | 11 | 28 | -51 | | A | |
| MY | SD1485 | 174-230 | 200 | 11 | 32 | | 50 | AB | |
| SM | SD1476 | 55-88 | 240 | 12 | 32 | | 50 | AB | |
| SM | SD1458 | 174-230 | 14 | 14 | 28 | -55 | | A | |
| SM | SD1455 | 174-230 | 20 | 8 | 25 | -51 | | A | |
| SM | SD1459 | 174-230 | 20 | 7.5 | 28 | -53 | | A | |
| SM | SD1456 | 174-230 | 100 | 11 | 28 | -51 | 70 | AB | |

MOSFETS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|-------------------------|
| MO | MRF154 | 2-100 | 600 | 17 | 50 | -25 | 45 | AB | unmatched |
| MO | MRF157 | 2-100 | 600 | 20 | 50 | -25 | 45 | AB | unmatched |
| MO | MRF150 | 2-150 | 150 | 17 | 50 | -32 | | AB | unmatched |
| MO | MRF141 | 2-175 | 150 | 10 | 28 | | 55 | AB | unmatched |
| MO | MRF141G | 2-175 | 300 | 13 | 28 | | 55 | AB | unmatched |
| MO | MRF151 | 2-175 | 150 | 13 | 50 | | 45 | AB | unmatched |
| MO | MRF151G | 2-175 | 300 | 16 | 50 | | 55 | AB | unmatched |
| MO | MRF148A | 2-225 | 30 | 18 | 50 | -35 | 55 | AB | unmatched |
| MO | MRF134 | 30-225 | 5 | 14 | 28 | | 55 | AB | unmatched |
| MO | MRF136 | 30-225 | 15 | 16 | 28 | | 60 | AB | unmatched |
| MO | MRF171A | 30-225 | 45 | 19.5 | 28 | -32 | 65 | AB | unmatched |
| MO | MRF173 | 30-225 | 80 | 13 | 28 | | 65 | AB | unmatched |
| MO | MRF174 | 30-225 | 125 | 11.8 | 28 | | 60 | AB | unmatched |
| MO | MRF158 | 30-512 | 2 | 17.5 | 28 | | 52 | AB | unmatched |
| MO | MRF160 | 30-512 | 4 | 17 | 28 | | 55 | AB | unmatched |
| MO | MRF166C | 30-512 | 20 | 16 | 28 | | 55 | AB | unmatched |
| MO | MRF166W | 30-512 | 40 | 16 | 28 | | 55 | AB | unmatched |
| MO | MRF177 | 100-400 | 100 | 12 | 28 | | 60 | AB | unmatched |
| MO | MRF275L | 150-512 | 100 | 8.8 | 28 | | 55 | AB | unmatched |
| MO | MRF275G | 150-512 | 150 | 11.2 | 28 | | 55 | AB | unmatched |
| SB | D1028UK | 1-240 | 300 | 13 | 28 | | 60 | AB | |
| SB | D1029UK | 1-240 | 350 | 13 | 28 | | 60 | AB | |
| SB | LMP2003 | 220-222 | 5.5 | 37.4 | 7.2 | | 38 | | Amplifier Module |

**UHF TV
TRANSISTORS**

BIPOLARS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|---------------------------|
| EC | PTB20206 | 470-860 | 1 | 11 | 20 | -44 | | A | |
| EC | PTB20188 | 470-860 | 4 | 7 | 25 | -58 | | A | |
| EC | PTB20011 | 470-860 | 20 | 8.5 | 26 | -46 | | A | |
| EC | PTB20091 | 470-860 | 30 | 11 | 25 | -50 | | A | |
| EC | PTB20162 | 470-900 | 40 | 8 | 25 | -32 | 50 | AB | |
| EC | PTB20020 | 470-860 | 150 | 8 | 30 | -35 | 50 | AB | |
| EC | PTB20081 | 470-860 | 150 | 8.5 | 28 | | 55 | AB | |
| EC | PTB20237 | 470-860 | 150 | 8 | 28 | -44 | 50 | AB | |
| EC | PTB20101 | 470-860 | 175 | 10 | 28 | | 55 | AB | |
| EC | PTB20190 | 470-800 | 175 | 8 | 28 | -40 | 45 | AB | |
| GZ | UTV005 | 470-860 | 0.5 | 10 | 20 | -60 | | A | |
| GZ | UTV010 | 470-860 | 1 | 10 | 20 | -60 | | A | |
| GZ | UTV020 | 470-860 | 2 | 10 | 25 | -60 | | A | |
| GZ | UTV040 | 470-860 | 4 | 8.5 | 25 | -60 | | A | |
| GZ | UTV080 | 470-860 | 8 | 9 | 26.5 | -58 | | A | |
| GZ | UTV120 | 470-860 | 12 | 8.9 | 26.5 | -52 | | A | |
| GZ | UTV200 | 470-860 | 20 | 8.5 | 26.5 | -48 | | A | |
| GZ | UTV100B | 470-860 | 100 | 8.5 | 28 | | 55 | AB | |
| GZ | UTV8100B | 470-860 | 100 | 8.5 | 28 | | 55 | AB | |
| MO | TPV8100B | 470-860 | 100 | 9.5 | 28 | | 58 | AB | matched linear transistor |
| MY | MS1502 | 470-860 | 0.5 | 11.5 | 20 | -58 | | A | |
| MY | MS1512 | 470-860 | 1 | 10 | 20 | -58 | | A | |
| MY | MS1501 | 470-860 | 2 | 8.5 | 25 | -60 | | A | |
| MY | MS1581 | 470-860 | 4 | 7 | 25 | -60 | | A | |
| MY | MS1531 | 470-860 | 4 | 8 | 25 | -60 | | A | |
| MY | MS1579 | 470-860 | 14 | 8.5 | 25 | -45 | | A | |
| MY | MS1532 | 470-860 | 20 | 9.5 | 26.5 | -48 | | A | |
| MY | MS1582 | 470-860 | 25 | 8 | 25 | -45 | | A | |
| MY | MS1584 | 470-860 | 50 | 6.8 | 28 | -30 | | AB | |

BIPOLARS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| MY | MS1586 | 470-860 | 100 | 10 | 28 | -30 | | AB | |
| MY | MS1576 | 470-860 | 150 | 8.5 | 28 | -30 | | AB | |
| MY | MS1533 | 470-860 | 150 | 6.5 | 28 | -30 | | AB | |
| SM | SD1448 | 470-860 | 4 | 7 | 25 | -60 | | A | |
| SM | SD4011 | 470-860 | 4 | 8 | 25 | -60 | | A | |
| SM | SD1732 | 470-860 | 14 | 8.5 | 25 | -45 | | A | |
| SM | SD4010 | 470-860 | 20 | 9.5 | 26.5 | -48 | | A | |
| SM | SD1490 | 470-860 | 25 | 8 | 25 | -45 | | A | |
| SM | SD1489 | 470-860 | 50 | 6.8 | 28 | | 45 | AB | |
| SM | SD1492 | 470-860 | 150 | 6.5 | 28 | | 45 | AB | |
| SM | SD4100 | 470-860 | 100 | 8.5 | 28 | | 53 | AB | |
| SM | SD4200 | 470-860 | 150 | 8.5 | 28 | | 50 | AB | In Development |

**GENERAL PURPOSE
TRANSISTORS**

BIPOLARS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|--|
| MO | MRF858S | 840-900 | 3.6cw | 11 | 24 | | | A | Not Recommended for New Design (unmatched) |
| MO | MRF898 | 850-900 | 60cw | 7 | 24 | | 65 | C | Not Recommended for New Design (matched) |
| MO | MRF897 | 900 | 30 | 10 | 24 | -37 | 38 | AB | Not Recommended for New Design (matched) |
| MO | MRF897R | 900 | 30 | 10.5 | 24 | -37 | 38 | AB | Not Recommended for New Design (matched) |
| MO | MRF899 | 900 | 150 | 8 | 26 | -32 | 40 | AB | Not Recommended for New Design (matched) |
| MO | MRF6409 | 921-960 | 20 | 10 | 26 | | 60 | AB | Not Recommended for New Design (matched) |
| MO | MRF6414 | 921-960 | 50 | 8.5 | 26 | | 55 | AB | Not Recommended for New Design (matched) |
| MO | MRF16006 | 1600-1640 | 6 | 7.4 | 28 | | 40 | C | |
| MO | MRF16030 | 1600-1640 | 30 | 7.5 | 28 | | 40 | C | |
| MW | LF2802A | 500-1000 | 2 | 10 | 28 | | 40 | AB | |
| MW | LF2805A | 500-1000 | 5 | 10 | 28 | | 50 | AB | |
| MW | LF2810A | 500-1000 | 10 | 10 | 28 | | 50 | AB | |
| MY | MS3000 | 1000 | 27 | 10.5 | 18 | | | A | |
| MY | MS3002 | 1000 | 31.8 | 9.5 | 20 | | | A | |
| MY | MS3016 | 1000 | 2 | 10 | 28 | | | C | |
| MY | MS3017 | 1000 | 5 | 10 | 28 | | | C | |
| MY | MS3018 | 1000 | 10 | 10 | 28 | | | C | |
| MY | MS3019 | 1000 | 20 | 10 | 28 | | | C | |
| MY | MS3020 | 1400 | 2 | 10 | 28 | | | C | |
| MY | MSC81406 | 1400 | 6 | 9.7 | 28 | | | C | |
| MY | MSC80064 | 2000 | 20.5 | 9 | 18 | | | A | |
| MY | MS3009 | 2000 | 28 | 7.5 | 18 | | | A | |
| MY | MS3011 | 2000 | 30 | 7 | 18 | | | A | |
| MY | MS3013 | 2000 | 31.7 | 6 | 18 | | | A | |

BIPOLARS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| MY | MS3014 | 2000 | 34 | 6 | 18 | | | A | |
| MY | MS3003 | 2000 | 24 | 10 | 20 | | | A | |
| MY | MS3006 | 2000 | 27 | 8 | 20 | | | A | |
| MY | SD1851 | 2000 | 29 | 8 | 20 | | | A | |
| MY | SD1853 | 2000 | 31.8 | 7 | 20 | | | A | |
| MY | MS3015 | 2000 | 34 | 6 | 20 | | | A | |
| MY | MS3023 | 2000 | 3 | 7.8 | 28 | | | C | |
| MY | MS3024 | 2000 | 5 | 7 | 28 | | | C | |
| MY | MS3025 | 2000 | 10 | 5 | 28 | | | C | |
| MY | SD1850 | 2300 | 23 | 11 | 15 | | | A | |
| MY | MS3451 | 2300 | 1.8 | 10 | 22 | | | C | |
| MY | MS3452 | 2300 | 3.8 | 10 | 22 | | | C | |
| MY | MS3453 | 2300 | 5.5 | 9.6 | 22 | | | C | |
| MY | MS3454 | 2300 | 7 | 9.6 | 22 | | | C | |
| MY | MSC3000 | 3000 | 0.5 | 7 | 28 | | | C | |
| MY | MS3383 | 3000 | 1 | 7 | 28 | | | C | |
| MY | MS3384 | 3000 | 2.5 | 5 | 28 | | | C | |
| MY | MS3302 | 3000 | 4.5 | 4.5 | 28 | | | C | |
| MY | MSC80264 | 4000 | 20 | 6 | 12 | | | A | |
| MY | MSC4000 | 4000 | 0.5 | 5 | 28 | | | C | |
| MY | MSC4001 | 4000 | 1 | 5 | 28 | | | C | |
| MY | MSC4003 | 4000 | 2.5 | 5 | 28 | | | C | |
| SM | MSC82100 | 1000 | 0.5 | 10.5 | 18 | | | A | |
| SM | MSC82040 | 1000 | 0.5 | 10.5 | 18 | | | A | |
| SM | MSC81090 | 1000 | 1 | - | 20 | | | C | |
| SM | SD5000 | 1000 | 1.5 | 9.5 | 20 | | | A | |
| SM | MSC81002 | 1000 | 2 | 10 | 28 | | | C | |
| SM | MSC81118 | 1000 | 2 | 10 | 28 | | | C | |
| SM | MSC81005 | 1000 | 5 | 10 | 28 | | | C | |
| SM | MSC81111 | 1000 | 5 | 10 | 28 | | | C | |
| SM | MSC81010 | 1000 | 10 | 10 | 28 | | | C | |

BIPOLARS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| SM | MSC81058 | 1000 | 10 | 12 | 28 | | | C | |
| SM | MSC81020 | 1000 | 20 | 10 | 28 | | | C | |
| SM | MSC81402 | 1400 | 2 | 10 | 28 | | | C | |
| SM | MSC80195 | 2000 | 0.8 | 7.5 | 18 | | | A | |
| SM | MSC80185 | 2000 | 0.8 | 7.5 | 18 | | | A | |
| SM | MSC80196 | 2000 | 1 | 7 | 18 | | | A | |
| SM | MSC80186 | 2000 | 1 | 7 | 18 | | | A | |
| SM | MSC80197 | 2000 | 1.5 | 6 | 18 | | | A | |
| SM | SD1855 | 2000 | 3 | 6 | 20 | | | A | |
| SM | MSC82001 | 2000 | 1 | 7 | 28 | | | C | |
| SM | MSC82003 | 2000 | 3 | 7.8 | 28 | | | C | |
| SM | MSC82005 | 2000 | 5 | 7 | 28 | | | C | |
| SM | MSC82010 | 2000 | 10 | 5 | 28 | | | C | |
| SM | MSC82302 | 2300 | 1.8 | 10 | 22 | | | C | |
| SM | MSC82304 | 2300 | 3.8 | 10 | 22 | | | C | |
| SM | MSC82306 | 2300 | 5.5 | 9.6 | 22 | | | C | |
| SM | MSC82307 | 2300 | 7 | 9.6 | 22 | | | C | |
| SM | MSC83301 | 3000 | 1 | 7 | 28 | | | C | |
| SM | MSC83303 | 3000 | 2.5 | 5 | 28 | | | C | |
| SM | MSC83305 | 3000 | 4.5 | 4.5 | 28 | | | C | |

MOSFETS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| SB | D2224UK | 1-1000 | 5 | 7 | 7.2 | | 50 | AB | |
| SB | D2211UK | 1-1000 | 10 | 7 | 7.2 | | 40 | AB | |
| SB | D2229UK | 1-1000 | 2.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2225UK | 1-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2230UK | 1-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2232UK | 1-1000 | 5 | 7 | 12.5 | | 50 | AB | |
| SB | D2253UK | 1-1000 | 5 | 13 | 12.5 | | 40 | AB | |

MOSFETS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| SB | D2231UK | 1-1000 | 7.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2221UK | 1-1000 | 7.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2259UK | 1-1000 | 10 | 10 | 12.5 | | 40 | AB | |
| SB | D2293UK | 1-1000 | 10 | 11 | 12.5 | | 50 | AB | |
| SB | D2294UK | 1-1000 | 15 | 11 | 12.5 | | 50 | AB | |
| SB | D2218UK | 1-1000 | 20 | 10 | 12.5 | | 40 | AB | |
| SB | D2210UK | 1-1000 | 20 | 10 | 12.5 | | 40 | AB | |
| SB | D2029UK | 1-1000 | 2.5 | 13 | 28 | | 40 | AB | |
| SB | D2030UK | 1-1000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2031UK | 1-1000 | 7.5 | 13 | 28 | | 40 | AB | |
| SB | D1031UK | 1-1000 | 10 | 13 | 28 | | 50 | AB | |
| SB | D2010UK | 1-1000 | 20 | 10 | 28 | | 40 | AB | |
| SB | D2282UK | 500-1000 | 0.75 | 8 | 6 | | 40 | AB | |
| SB | D2081UK | 500-1000 | 0.75 | 11 | 12.5 | | 40 | AB | |
| SB | D2201UK | 500-1000 | 2.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2219UK | 500-1000 | 2.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2202UK | 500-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2203UK | 500-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2220UK | 500-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2212UK | 500-1000 | 10 | 10 | 12.5 | | 40 | AB | |
| SB | D2213UK | 500-1000 | 20 | 10 | 12.5 | | 40 | AB | |
| SB | D2001UK | 500-1000 | 2.5 | 13 | 28 | | 40 | AB | |
| SB | D2019UK | 500-1000 | 2.5 | 13 | 28 | | 40 | AB | |
| SB | D2002UK | 500-1000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2003UK | 500-1000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2020UK | 500-1000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2005UK | 500-1000 | 7.5 | 13 | 28 | | 40 | AB | |
| SB | D1011UK | 500-1000 | 10 | 13 | 28 | | 50 | AB | |
| SB | D1093UK | 500-1000 | 10 | 13 | 28 | | 50 | AB | |
| SB | D2004UK | 500-1000 | 10 | 13 | 28 | | 40 | AB | |
| SB | D2012UK | 500-1000 | 10 | 10 | 28 | | 50 | AB | |
| SB | D2006UK | 500-1000 | 15 | 13 | 28 | | 40 | AB | |
| SB | D1016UK | 500-1000 | 20 | 13 | 28 | | 50 | AB | |
| SB | D1094UK | 500-1000 | 20 | 11 | 28 | | 50 | AB | |

MOSFETS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| SB | D2013UK | 500-1000 | 20 | 10 | 28 | | 50 | AB | |
| SB | D2082UK | 500-1000 | 40 | 8 | 28 | | 40 | AB | |
| SB | D1053UK | 500-1000 | 50 | 7.5 | 28 | | 45 | AB | |
| SB | D2083UK | 500-1000 | 80 | 8 | 28 | | 40 | AB | |
| SB | D2084UK | 500-1000 | 100 | 8 | 28 | | 40 | AB | |
| SB | D2085UK | 500-1000 | 120 | 8 | 28 | | 40 | AB | |

LNA

| Brand | Part Number | f T | G u (Max) | | | |
|-------|-------------|------------------|-----------|------------|------------|------------|
| | | Frequency MHz | f (dB) | Gain dB | Vce (V) | Ic (mA) |
| MY | BFR96 | 500 | 500 | 14.5 | 10 | 10 |
| MY | 2N5179 | 900 | 200 | 20 | 6 | 1.5 |
| MY | MRF5943C | 1000 | 200 | 11.4 | 15 | 35 |
| MY | 2N5031 | 1200 | - | 12 | - | - |
| MY | 2N5109 | 1200 | - | 12 | - | - |
| MY | MRF5943 | 1300 | - | 15 | - | - |
| MY | BFY90 | 1300 | 500 | 19 | 5 | 2 |
| MY | 2N6304 | 1400 | 450 | 14 | 5 | 2 |
| MY | 2N2857 | 1600 | 500 | 13 | 6 | 1.5 |
| MY | MRF586 | 3000 | - | 12.5 | - | - |
| MY | MRF517 | 4000 | 300 | 9 | 15 | 50 |
| MY | MRF904 | 4000 | 450 | 11 | 6 | 5 |
| MY | MRF914 | 4500 | 500 | 15 | 10 | 5 |
| MY | MRF581 | 5000 | 500 | 15 | 10 | 50 |
| MY | MRF581A | 5000 | 500 | 15 | 10 | 50 |
| MY | BFR91 | 5000 | 500 | 16.5 | 5 | 2 |
| MY | MRF5812 | 5000 | 500 | 17.8 | 10 | 50 |
| MY | BFR90 | 5000 | 500 | 18 | 10 | 2 |
| MY | MRF951 | 8000 | 1000 | - | 6 | 5 |

Configuration: Common Emitter

Tape & Reel: R1 = 500 pcs (SO-8) R2 = 2500 PCS (SO-8) T = 500 PCS (Macro)

PA

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|------------------|
| MY | MRF4427 | 175 | 0.15 | 18 | 12 | 60 |
| MY | 2N4427 | 175 | 1 | 10 | 12.5 | 50 |
| MY | MRF553 | 175 | 1.5 | 11.5 | 12.5 | 50 |
| MY | MRF553T | 175 | 1.5 | 11.5 | 12.5 | 50 |
| MY | MFR607 | 175 | 1.75 | 11.5 | 12.5 | 50 |
| MY | 2N6255 | 175 | 3 | 7.8 | 12.5 | 50 |
| MY | 2N3866A | 400 | 1 | 10 | 28 | 45 |
| MY | 2N3866 | 400 | 1 | 10 | 28 | 45 |
| MY | MRF3866 | 400 | 1 | 10 | 28 | 45 |
| MY | MRF555 | 470 | 1.5 | 11 | 12.5 | 50 |
| MY | MRF555T | 470 | 1.5 | 11 | 12.5 | 50 |
| MY | MRF559 | 870 | 0.5 | 6.5 | 7.5 | 70 |
| MY | MRF8372 | 870 | 0.75 | 8 | 12.5 | 55 |
| MY | MRF557 | 870 | 1.5 | 8 | 12.5 | 55 |
| MY | MRF557T | 870 | 1.5 | 8 | 12.5 | 55 |

Configuration: Common Emitter

Tape & Reel: R1 = 500 pcs (SO-8) R2 = 2500 pcs (SO-8) T= 500 pcs (Macro)

**CELLULAR, GSM, PAGING
TRANSISTORS**

LDMOS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-----------------------------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|-----------------------------|
| EC | PTF10133 | 860-900 | 85 | 13 | 28 | -30 | 50 | AB | |
| EC | PTF10100 | 860-900 | 165 | 12 | 28 | -30 | 50 | AB | INPUT MATCHED |
| EC | PTF10162 | 860-960 | 18 | 14 | 26 | -30 | 55 | AB | |
| EC | PTF10160 | 860-960 | 85 | 15 | 26 | -30 | 53 | AB | |
| EC | PTF10019 | 860-960 | 63 | 10 | 28 | -30 | 50 | AB | INPUT MATCHED |
| EC | PTF10036 | 860-960 | 85 | 11 | 28 | -30 | 55 | AB | ~MRF185 |
| EC | PTF10020 | 860-960 | 125 | 11 | 28 | -30 | 55 | AB | PUSH PULL |
| EC | PTF10149 | 921-960 | 70 | 16 | | | 50 | | |
| EC | PTF10147 | 1000 | 10 | 15 | 26 | | | | |
| EC | PTF10136 | 1000 | 6 | 18 | 28 | -22 | 57 | AB | SURFACE MOUNT |
| EC | PTF10137 | 1000 | 12 | 18 | 28 | -24 | 60 | AB | SURFACE MOUNT |
| EC | PTF10007 | 1000 | 35 | 12 | 28 | -30 | 55 | AB | ~MRF182 |
| EC | PTF10041 | 1000 | 35 | 13.5 | 28 | -28 | 55 | AB | |
| EC | PTF10031 | 1000 | 45 | 12 | 28 | -30 | 55 | AB | ~MRF183 |
| EC | PTF10015 | 1000 | 50 | 12 | 28 | -30 | 55 | AB | ~MRF183S |
| EC | PTF10009 | 1000 | 90 | 12 | 28 | -30 | 50 | AB | PUSH PULL |
| EC | PTF10139 | 1000 | 60 | 12 | 60 | -30 | 48 | AB | ~MRF184S |
| EC | PTF10138 | 1000 | 60 | 12 | 60 | -30 | 48 | AB | ~MRF184 |
| (ALL COMMON SOURCE CONFIGURATION) | | | | | | | | | |
| (ALL GOLD METALLIZATION) | | | | | | | | | |
| MO | MRF187 | 860-880 | 85pep | 13 | 26 | -31 | 33 | AB | Obsolete; recommend MRF9085 |
| MO | MRF187S | 860-880 | 85pep | 13 | 26 | -31 | 33 | AB | matched |
| MO | MRF9085 | 860-880 | 90pep | 17.9 | 26 | | 40 | AB | matched |
| MO | MRF9085S | 860-880 | 90pep | 17.9 | 26 | | 40 | AB | matched |
| MO | MRF9180 | 860-880 | 170pep | 17.5 | 26 | | 37.5 | AB | |
| MO | MRF9180S | 860-880 | 170pep | 17.5 | 26 | | 37.5 | AB | |

LDMOS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-----------|-------------------|------------------|----------------|-------------|-------------------|------------|-----------|-----------|--|
| MO | MRF181SR1 | 800-1000 | 7.5pep | 17 | 28 | | 32.5 | AB | TAPE & REEL PACKAGING (500 UNITS) |
| MO | MRF181ZR1 | 800-1000 | 7.5pep | 17 | 28 | | 32.5 | AB | TAPE & REEL PACKAGING (500 UNITS) |
| MO | MRF182 | 800-1000 | 30cw | 14 | 28 | | 58 | AB | Obsolete; recommend MRF9030 |
| MO | MRF183 | 800-1000 | 45pep | 13.5 | 28 | -32 | 38 | AB | Obsolete; recommend MRF9045 |
| MO | MRF183S | 800-1000 | 45pep | 13.5 | 28 | -32 | 38 | AB | Not Recommended for New Design |
| MO | MRF9045 | 800-1000 | 45pep | 18.8 | 28 | | 42 | AB | unmatched |
| MO | MRF9045S | 800-1000 | 45pep | 18.8 | 28 | | 42 | AB | unmatched |
| MO | MRF9045M | 800-1000 | 45pep | 18.5 | 28 | | 40 | AB | unmatched |
| MO | MRF184 | 800-1000 | 60cw | 13.5 | 28 | | 60 | AB | Obsolete; recommend MRF9060 |
| MO | MRF184S | 800-1000 | 60cw | 13.5 | 28 | | 60 | AB | Not Recommended for New Design |
| MO | MRF9002 | 921-960 | 2pep | 16 | 26 | | 35 | AB | |
| MO | MRF6522-5R1 | 921-960 | 5cw | 19 | 26 | | 55 | AB | TAPE & REEL PACKAGING (500 UNITS) |
| MO | MRF6522-10R1 | 921-960 | 10cw | 17 | 26 | | 50 | AB | TAPE & REEL PACKAGING (500 UNITS) |
| MO | MRF9030 | 921-960 | 30pep | 17 | 26 | | 40 | AB | |
| MO | MRF9030S | 921-960 | 30pep | 17 | 26 | | 40 | AB | |
| MO | MRF9060 | 921-960 | 60pep | 17 | 26 | | 40 | AB | |
| MO | MRF9060S | 921-960 | 60pep | 17 | 26 | | 40 | AB | |
| MO | MRF6522-70 | 921-960 | 70cw | 16 | 26 | | 58 | AB | |
| MO | MRF9080 | 921-960 | 90pep | 17.5 | 26 | | 58 | AB | |
| MO | MRF9080S | 921-960 | 90pep | 17.5 | 26 | | 58 | AB | |
| MO | MRF185 | 921-960 | 85cw | 14 | 28 | | 53 | AB | Obsolete; recommend MRF9085 |
| MO | MRF186 | 921-960 | 120cw | 12 | 28 | -32 | 35 | AB | Obsolete; recommend MRF9120 |
| SF | SL-1010 | 800-1000 | 10 | 15.5 | 26 | -30 | | A/AB | |
| SF | SL-3010 | 800-1000 | 30 | 12.5 | 26 | -30 | | A/AB | |
| SF | SL-6010 | 800-1000 | 60 | 12.5 | 26 | -30 | | A/AB | |
| SF | SL-8010 | 800-1000 | 80 | 10.5 | 26 | -30 | | A/AB | |
| SF | SL-12010 | 800-1000 | 120 | | | -30 | | | IN DEVELOPMENT |
| SM | SD56120 | 470-860 | 100 | 13 | 28 | | 45 | AB | |
| SM | SD56120M | 470-860 | 120 | 12 | 28 | | 45 | AB | IN DEVELOPMENT |
| SM | SD57085 | 800-880 | 85 | 15 | 26 | | 45 | AB | IN DEVELOPMENT |
| SM | SD57170 | 800-880 | 170 | 13 | 28 | | 45 | AB | IN DEVELOPMENT |
| SM | PD57030 | 800-945 | 30 | 13 | 28 | | 50 | AB | Avail. in straight lead version-add 's' suffix |

LDMOS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---|
| SM | SD57030/-01 | 800-945 | 30 | 13 | 28 | | 50 | AB | |
| SM | PD57045 | 800-945 | 45 | 13 | 28 | | 50 | AB | Avail. in straight lead version-add 's' suffix |
| SM | SD57045/-01 | 800-945 | 45 | 13 | 28 | | 50 | AB | |
| SM | SD57060/-01 | 800-945 | 60 | 12 | 28 | | 50 | AB | |
| SM | SD57070 | 800-960 | 70 | 15 | 26 | | 50 | AB | IN DEVELOPMENT |
| SM | SD57085-02 | 800-960 | 85 | 15 | 26 | | 50 | AB | IN DEVELOPMENT |
| SM | PD57002 | 800-960 | 2 | 15 | 28 | | 50 | AB | In Development-straight lead version-add 's' suffix |
| SM | PD57006 | 800-960 | 6 | 15 | 28 | | 50 | AB | In Development-straight lead version-add 's' suffix |
| SM | PD57018 | 800-960 | 18 | 14 | 28 | | 50 | AB | Avail. in straight lead version-add 's' suffix |
| SM | SD57120 | 800-960 | 120 | 13 | 28 | | 50 | AB | IN DEVELOPMENT |
| MO | MHL9838 | 800-925 | 8 | 31 | 28 | | | A | Amplifier Module |
| MO | MHL9236 | 800-960 | 2.5 | 30.5 | 26 | | | A | Amplifier Module |
| MO | MHL9236M | 800-960 | 2.5 | 30.5 | 26 | | | A | Amplifier Module |
| MO | MHL9128 | 800-960 | 1.3 | 20 | 28 | | | A | Amplifier Module |
| MO | MHL9318 | 860-900 | 3 | 17.5 | 28 | | | A | Amplifier Module |
| MO | MHVIC910L | 921-960 | 10 | 22 | 26 | | | AB | Amplifier Module (LDMOS IC) |
| MO | MHL8115 | 40-1000 | 1 | 17.5 | 15 | | | A | Wideband Linear Amplifier Module |
| MO | MHL8118 | 40-1000 | 1 | 17.5 | 28 | | | A | Wideband Linear Amplifier Module |

BIPOLARS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| EC | PTB20006 | 860-900 | 4 | 11 | 25 | -25 | 45 | AB | |
| EC | PTB20005 | 860-900 | 15 | 9 | 25 | -32 | 50 | AB | |
| EC | PTB20038 | 860-900 | 25 | 9 | 25 | | 50 | AB | |
| EC | PTB20134 | 860-900 | 30 | 8 | 25 | -30 | 50 | AB | |
| EC | PTB20004 | 860-900 | 50 | 8 | 25 | -21 | 50 | AB | |
| EC | PTB20053 | 860-900 | 60 | 8 | 25 | | 50 | AB | |
| EC | PTB20111 | 860-900 | 85 | 8.5 | 25 | -30 | 50 | AB | |
| EC | PTB20017 | 860-900 | 150 | 8 | 25 | -28 | 50 | AB | |

BIPOLARS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|--------------------------------|
| EC | PTB20189 | 900-960 | 1 | 12 | 25 | | 25 | A | |
| EC | PTB20003 | 915-960 | 4 | 11 | 25 | -28 | 50 | AB | |
| EC | PTB20144 | 915-960 | 6 | 9 | 25 | | 50 | AB | |
| EC | PTB20181 | 915-960 | 6 | 9 | 25 | | 50 | AB | |
| EC | PTB20145 | 915-960 | 9 | 9 | 25 | | 50 | AB | |
| EC | PTB20097 | 915-960 | 40 | 8.5 | 25 | | 50 | AB | |
| EC | PTB20220 | 915-960 | 15 | 8 | 25 | | 50 | AB | |
| EC | PTB20105 | 925-960 | 20 | 9 | 25 | | 50 | AB | |
| EC | PTB20148 | 925-960 | 60 | 8 | 25 | | 50 | AB | |
| EC | PTB20219 | 925-960 | 70 | 8.5 | 26 | -30 | 50 | AB | |
| EC | PTB20135 | 925-960 | 85 | 8 | 26 | -30 | 50 | AB | |
| EC | PTB20177 | 925-960 | 150 | 7.5 | 26 | -28 | 50 | AB | |
| EC | PTB20171 | 935-960 | 25 | 10 | 24 | | 50 | AB | |
| MW | PH0810-4 | 850-960 | 4 | 14 | 24 | -30 | 45 | AB | Not recommended for New Design |
| MW | PH0810-15 | 850-960 | 15 | 12 | 24 | -30 | 50 | AB | Not recommended for New Design |
| MW | PH0810-35 | 850-960 | 35 | 10 | 24 | -30 | 55 | AB | Not recommended for New Design |
| MW | PH0810-75 | 850-960 | 75 | 10 | 26 | -28 | 35 | AB | Not recommended for New Design |
| MW | PH0810-150 | 850-960 | 150 | 10 | 26 | -28 | 35 | AB | Not recommended for New Design |
| MY | MS1577 | 860-900 | 40 | 6 | 24 | | | AB | |
| MY | MS1528 | 860-900 | 120 | 6 | 24 | | | AB | |
| MY | MS1578 | 860-900 | 150 | 8 | 26 | | | AB | |
| MY | SD1420-01 | 860-960 | 0.9 | 9.5 | 24 | | | AB | |
| MY | MS1600 | 860-960 | 2.1 | 9 | 24 | | | AB | |
| MY | MS1601 | 860-960 | 6 | 10 | 24 | | | AB | |
| MY | MS1451 | 860-960 | 15 | 8 | 24 | | | AB | |
| MY | MS1452 | 860-960 | 30 | 7.5 | 24 | | | AB | |
| MY | MS1453 | 860-960 | 30 | 7.5 | 24 | | | AB | |
| MY | MS1551 | 860-960 | 60 | 7 | 24 | | | AB | |
| MY | MS1454 | 860-960 | 30 | 7.5 | 25 | | | AB | |

BIPOLARS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| MY | MS1530 | 860-960 | 60 | 7.5 | 26 | | | AB | |
| MY | MS1583 | 900-960 | 100 | 10 | 26 | | | AB | |
| MY | MS1529 | 915-960 | 100 | 6 | 24 | | | AB | |
| SM | SD1414 | 800-870 | 45 | 4.7 | 12.5 | | 50 | C | |
| SM | SD1398 | 860-960 | 6 | 10 | 24 | | 50 | AB | |
| SM | SD1423 | 860-960 | 15 | 8 | 24 | | 45 | AB | |
| SM | SD1424 | 860-960 | 30 | 7.5 | 24 | | 45 | AB | |
| SM | SD4017 | 860-960 | 30 | 7.5 | 25 | -35 | 55 | AB | |
| SM | SD4701 | 860-960 | 45 | 8.5 | 26 | | | AB | |
| SM | SD1650 | 860-960 | 60 | 7 | 24 | | 45 | AB | |
| SM | SD4600 | 860-960 | 60 | 7.5 | 26 | | 50 | AB | |
| SM | SD4575 | 800-960 | 75 | 8.5 | 26 | | | AB | |
| SM | SD1660 | 860-900 | 120 | 6 | 24 | -32 | 50 | AB | |
| SM | SD4590 | 800-960 | 150 | 8.5 | 26 | -32 | 35 | AB | |
| SM | SD1680 | 915-960 | 100 | 6 | 24 | -32 | 45 | AB | |
| SM | SD1414-12 | 900-960 | 40 | 4.3 | 13.5 | | 50 | C | |

MOSFETS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| MW | LF2802A | 500-1000 | 2 | 10 | 28 | | 40 | AB | |
| MW | LF2805A | 500-1000 | 5 | 10 | 28 | | 50 | AB | |
| MW | LF2810A | 500-1000 | 10 | 10 | 28 | | 50 | AB | |
| SB | D2224UK | 1-1000 | 5 | 7 | 7.2 | | 50 | AB | |
| SB | D2211UK | 1-1000 | 10 | 7 | 7.2 | | 40 | AB | |
| SB | D2225UK | 1-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2230UK | 1-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2232UK | 1-1000 | 5 | 7 | 12.5 | | 50 | AB | |
| SB | D2253UK | 1-1000 | 5 | 13 | 12.5 | | 40 | AB | |
| SB | D2231UK | 1-1000 | 7.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2221UK | 1-1000 | 7.5 | 10 | 12.5 | | 40 | AB | |

MOSFETS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| SB | D2259UK | 1-1000 | 10 | 10 | 12.5 | | 40 | AB | |
| SB | D2293UK | 1-1000 | 10 | 11 | 12.5 | | 50 | AB | |
| SB | D2294UK | 1-1000 | 15 | 11 | 12.5 | | 50 | AB | |
| SB | D2218UK | 1-1000 | 20 | 10 | 12.5 | | 40 | AB | |
| SB | D2210UK | 1-1000 | 20 | 10 | 12.5 | | 40 | AB | |
| SB | D2229UK | 1-1000 | 2.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2029UK | 1-1000 | 2.5 | 13 | 28 | | 40 | AB | |
| SB | D2030UK | 1-1000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2031UK | 1-1000 | 7.5 | 13 | 28 | | 40 | AB | |
| SB | D1031UK | 1-1000 | 10 | 13 | 28 | | 50 | AB | |
| SB | D2010UK | 1-1000 | 20 | 10 | 28 | | 40 | AB | |
| SB | D2282UK | 500-1000 | 0.75 | 8 | 6 | | 40 | AB | |
| SB | D2081UK | 500-1000 | 0.75 | 11 | 12.5 | | 40 | AB | |
| SB | D2201UK | 500-1000 | 2.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2219UK | 500-1000 | 2.5 | 10 | 12.5 | | 40 | AB | |
| SB | D2202UK | 500-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2203UK | 500-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2220UK | 500-1000 | 5 | 10 | 12.5 | | 40 | AB | |
| SB | D2212UK | 500-1000 | 10 | 10 | 12.5 | | 40 | AB | |
| SB | D2213UK | 500-1000 | 20 | 10 | 12.5 | | 40 | AB | |
| SB | D2001UK | 500-1000 | 2.5 | 13 | 28 | | 40 | AB | |
| SB | D2019UK | 500-1000 | 2.5 | 13 | 28 | | 40 | AB | |
| SB | D2002UK | 500-1000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2003UK | 500-1000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2020UK | 500-1000 | 5 | 13 | 28 | | 40 | AB | |
| SB | D2005UK | 500-1000 | 7.5 | 13 | 28 | | 40 | AB | |
| SB | D1011UK | 500-1000 | 10 | 13 | 28 | | 50 | AB | |
| SB | D1093UK | 500-1000 | 10 | 13 | 28 | | 50 | AB | |
| SB | D2004UK | 500-1000 | 10 | 13 | 28 | | 40 | AB | |
| SB | D2012UK | 500-1000 | 10 | 10 | 28 | | 50 | AB | |
| SB | D2006UK | 500-1000 | 15 | 13 | 28 | | 40 | AB | |
| SB | D1016UK | 500-1000 | 20 | 13 | 28 | | 50 | AB | |
| SB | D1094UK | 500-1000 | 20 | 11 | 28 | | 50 | AB | |
| SB | D2013UK | 500-1000 | 20 | 10 | 28 | | 50 | AB | |

MOSFETS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|-------------------------|
| SB | D2082UK | 500-1000 | 40 | 8 | 28 | | 40 | AB | |
| SB | D1053UK | 500-1000 | 50 | 7.5 | 28 | | 45 | AB | |
| SB | D2083UK | 500-1000 | 80 | 8 | 28 | | 40 | AB | |
| SB | D2084UK | 500-1000 | 100 | 8 | 28 | | 40 | AB | |
| SB | D2085UK | 500-1000 | 120 | 8 | 28 | | 40 | AB | |
| SM | STM901-30 | 850-900 | 30 | 35 | 26 | | | | Amplifier Module |
| SM | STM915-16 | 890-915 | 16 | 72 | 12.5 | | | | Amplifier Module |
| SM | STM961-15B | 915-960 | 15 | 28 | 26 | | | | Amplifier Module |

**PCS/DCS/WLL/GSM/HITS
TRANSISTORS**

LDMOS

| Brand | Part Number | Frequency MHZ | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------------|
| EC | PTF10021 | 1400-1600 | 30 | 11 | 28 | -25 | 48 | AB | |
| EC | PTF10125 | 1400-1600 | 135 | 11.5 | 28 | -30 | 40 | AB | |
| EC | PTF10045 | 1600-1650 | 30 | 10 | 28 | -28 | 40 | AB | |
| EC | PTF10112 | 1800-2000 | 60 | 11 | 28 | -30 | 41 | AB | |
| EC | PTF10153 | 1800-2000 | 60 | 11 | 28 | | | | |
| EC | PTF10120 | 1800-2000 | 120 | 10 | 28 | -30 | 40 | AB | |
| EC | PTF10043 | 1900-2000 | 12 | 11 | 26 | -30 | 45 | AB | INPUT MATCHED |
| EC | PTF10065 | 1900-2000 | 30 | 11.5 | 28 | -30 | 35 | AB | I/O MATCHED |
| EC | PTF10107 | 2000 | 5 | 11 | 26 | -30 | 40 | AB | |
| EC | PTF10135 | 2000 | 5 | 11 | 26 | -30 | 40 | AB | |
| EC | PTF10041 | 2000 | 12 | 10 | 26 | -30 | 40 | AB | ~MRF282S |
| EC | PTF10053 | 2000 | 12 | 10 | 26 | -30 | 42 | AB | ~MRF282Z |
| MO | MRF21010 | 1800-2170 | 10pep | 12.5 | 28 | | 32 | AB | |
| MO | MRF18060A | 1805-1880 | 60cw | 13 | 26 | | 45 | AB | matched |
| MO | MRF18060AS | 1805-1880 | 60cw | 13 | 26 | | 45 | AB | matched |
| MO | MRF18085A | 1805-1880 | 85cw | 12.5 | 26 | | 50 | AB | |
| MO | MRF18085AS | 1805-1880 | 85cw | 12.5 | 26 | | 50 | AB | |
| MO | MRF18090A | 1805-1880 | 90cw | 13.5 | 26 | | 52 | AB | matched |
| MO | MRF18090AS | 1805-1880 | 90cw | 13.5 | 26 | | 52 | AB | matched |
| MO | MRF18060B | 1930-1990 | 60cw | 13 | 26 | | 45 | AB | matched |
| MO | MRF18060BS | 1930-1990 | 60cw | 13 | 26 | | 45 | AB | matched |
| MO | MRF18085B | 1930-1990 | 85cw | 12.5 | 26 | | 45 | AB | |

LDMOS CONTINUED

| Brand | Part Number | Frequency MHZ | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-----------|------------------|------------------|----------------|-------------|-------------------|------------|-----------|-----------|-----------------------------------|
| MO | MRF18085BS | 1930-1990 | 85cw | 12.5 | 26 | | 45 | AB | |
| MO | MRF18090B | 1930-1990 | 90cw | 13.5 | 26 | | 45 | AB | matched |
| MO | MRF18090BS | 1930-1990 | 90cw | 13.5 | 26 | | 45 | AB | matched |
| MO | MRF19030 | 1930-1990 | 30pep | 13 | 26 | | 36 | AB | matched |
| MO | MRF19030S | 1930-1990 | 30pep | 13 | 26 | | 36 | AB | matched |
| MO | MRF19045 | 1930-1990 | 45pep | 14 | 26 | | 37 | AB | matched |
| MO | MRF19045S | 1930-1990 | 45pep | 14 | 26 | | 37 | AB | matched |
| MO | MRF19060 | 1930-1990 | 60pep | 12.5 | 26 | -31 | 36 | AB | matched |
| MO | MRF19060S | 1930-1990 | 60pep | 12.5 | 26 | -31 | 36 | AB | matched |
| MO | MRF19085 | 1930-1990 | 90pep | 12.5 | 26 | | 37 | AB | matched |
| MO | MRF19085S | 1930-1990 | 90pep | 12.5 | 26 | | 37 | AB | matched |
| MO | MRF19090 | 1930-1990 | 90pep | 11.5 | 26 | -30 | 35 | AB | matched |
| MO | MRF19090S | 1930-1990 | 90pep | 11.5 | 26 | -30 | 35 | AB | matched |
| MO | MRF19120 | 1930-1990 | 120pep | 11.7 | 26 | | 34 | AB | matched (push-pull) |
| MO | MRF19120S | 1930-1990 | 120pep | 11.7 | 26 | | 34 | AB | matched (push-pull) |
| MO | MRF19125 | 1930-1990 | 125pep | 12.5 | 26 | | 35 | AB | matched |
| MO | MRF19125S | 1930-1990 | 125pep | 12.5 | 26 | | 35 | AB | matched |
| MO | MRF281SR1 | 1930-2000 | 4pep | 12.5 | 26 | | 33 | A, AB | TAPE & REEL PACKAGING (500 UNITS) |
| MO | MRF281ZR1 | 1930-2000 | 4pep | 12.5 | 26 | | 33 | A, AB | TAPE & REEL PACKAGING (500 UNITS) |
| MO | MRF282SR1 | 1930-2000 | 10pep | 11.5 | 26 | -31 | 28 | A, AB | TAPE & REEL PACKAGING (500 UNITS) |
| MO | MRF282ZR1 | 1930-2000 | 10pep | 11.5 | 26 | -31 | 28 | A, AB | TAPE & REEL PACKAGING (500 UNITS) |
| MO | MRF284 | 1930-2000 | 30pep | 10.5 | 26 | -32 | 35 | A, AB | unmatched |
| MO | MRF284SR1 | 1930-2000 | 30pep | 10.5 | 26 | -32 | 35 | A, AB | TAPE & REEL PACKAGING (500 UNITS) |
| MO | MRF286 | 1930-2000 | 60pep | 10.5 | 26 | | 31 | A, AB | matched |
| MO | MRF286S | 1930-2000 | 60pep | 10.5 | 26 | | 31 | A, AB | matched |
| MO | MRF21010 | 1930-2000 | 10 | 12.5 | 28 | -30 | 32 | AB | |
| MO | MRF21030 | 2110-2170 | 30pep | 13 | 28 | | 33 | AB | matched |
| MO | MRF21030S | 2110-2170 | 30pep | 13 | 28 | | 33 | AB | matched |
| MO | MRF21045 | 2110-2170 | 45pep | 13.8 | 28 | | 36 | | |
| MO | MRF21045S | 2110-2170 | 45pep | 13.8 | 28 | | 36 | | |
| MO | MRF21060 | 2110-2170 | 60pep | 12.5 | 28 | -30 | 34 | AB | matched |
| MO | MRF21060S | 2110-2170 | 60pep | 12.5 | 28 | -30 | 34 | AB | matched |
| MO | MRF21085 | 2110-2170 | 90pep | 12.5 | 28 | | 36 | AB | |

LDMOS CONTINUED

| Brand | Part Number | Frequency MHZ | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-----------|------------------|------------------|----------------|-------------|-------------------|------------|-----------|-------------|----------------------------|
| MO | MRF21085S | 2110-2170 | 90pep | 12.5 | 28 | | 36 | AB | |
| MO | MRF21090 | 2110-2170 | 90pep | 11.7 | 28 | | 33 | AB | matched |
| MO | MRF21090S | 2110-2170 | 90pep | 11.7 | 28 | | 33 | AB | matched |
| MO | MRF21120 | 2110-2170 | 120pep | 11.2 | 28 | | 34.5 | AB | matched (push-pull) |
| MO | MRF21120S | 2110-2170 | 120pep | 11.2 | 28 | | 34.5 | AB | matched (push-pull) |
| MO | MRF21125 | 2110-2170 | 125pep | 12 | 28 | -30 | 34 | AB | matched |
| MO | MRF21125S | 2110-2170 | 125pep | 12 | 28 | -30 | 34 | AB | matched |
| MO | MRF21180 | 2110-2170 | 160pep | 11.3 | 28 | | 33 | AB | matched (push-pull) |
| MO | MRF21180S | 2110-2170 | 160pep | 11.3 | 28 | | 33 | AB | matched (push-pull) |
| SF | SL-1020 | 1800-2000 | 10 | 14.5 | 26 | -30 | | A/AB | |
| SF | SL-3020 | 1800-2000 | 30 | 10 | 26 | -30 | | A/AB | |
| SF | SL-5020 | 1800-2000 | 50 | | | -30 | | | |
| SF | SL-6020 | 1800-2000 | 60 | 10 | 26 | -30 | | A/AB | |
| SF | SL-12020 | 1800-2000 | 120 | | | -30 | | | |
| MO | MHW1810-1 | 1805-1880 | 10 | 24 | 26 | | | AB | Amplifier Module |
| MO | MHW1810-2 | 1805-1880 | 10 | 32 | 26 | | | AB | Amplifier Module |
| MO | MHL19338 | 1900-2000 | 4 | 30 | 28 | | | A | Amplifier Module |
| MO | MHW1910-1 | 1930-1990 | 10 | 24 | 26 | | | AB | Amplifier Module |
| MO | MHL19936 | 1900-2000 | | 30 | 28 | | | A | Amplifier Module |

BIPOLARS

| Brand | Part Number | Frequency MHZ | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| EC | PTB20179 | 1800-2000 | 0.4 | 8 | 26 | | | A | |
| EC | PTB20180 | 1800-2000 | 2.5 | 8 | 26 | | | AB | |
| EC | PTB20216 | 1800-2000 | 6 | 8 | 26 | | 30 | AB | |
| EC | PTB20264 | 1900-2000 | 10 | 8.4 | 26 | | 40 | AB | |
| EC | PTB20082 | 1800-2000 | 10 | 8 | 26 | | 30 | AB | |
| EC | PTB20170 | 1800-2000 | 30 | 7 | 26 | | 38 | AB | |
| EC | PTB20230 | 1800-2000 | 45 | 8.5 | 26 | | 45 | AB | |
| EC | PTB20175 | 1900-2000 | 55 | 7 | 26 | | 40 | AB | |
| EC | PTB20125 | 1800-2000 | 100 | 7 | 26 | | 45 | AB | |

BIPOLARS CONTINUED

| Brand | Part Number | Frequency MHZ | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|------------------|
| GZ | 1819AB4 | 1805-1880 | 3.2 | 9.3 | 25 | | 43 | AB | |
| GZ | 1819AB12 | 1805-1880 | 12 | 7.5 | 25 | | 43 | AB | |
| GZ | 1819AB25 | 1805-1880 | 25 | 7 | 25 | | 43 | AB | |
| GZ | 1819AB35 | 1805-1880 | 35 | 8 | 25 | | 43 | AB | |
| GZ | 1819AB60 | 1805-1880 | 60 | 7.3 | 25 | | 43 | AB | |
| GZ | 1920A05 | 1930-1990 | 3.2 | 9.3 | 25 | | 43 | A | |
| GZ | 1920A12 | 1930-1990 | 12 | 7.5 | 25 | | 43 | A | |
| GZ | 1920A20 | 1930-1990 | 20 | 9 | 25 | | 30 | A | |
| GZ | 1920AB4 | 1930-1990 | 3.2 | 9.3 | 25 | | 43 | AB | |
| GZ | 1920AB12 | 1930-1990 | 12 | 7.5 | 25 | | 43 | AB | |
| GZ | 1920AB25 | 1930-1990 | 25 | 7 | 25 | | 43 | AB | |
| GZ | 1920AB35 | 1930-1990 | 35 | 7 | 25 | | 43 | AB | |
| GZ | 1920AB60 | 1930-1990 | 60 | 7.3 | 25 | | 43 | AB | |
| GZ | 1920CD60 | 1930-1990 | 60 | 8.5 | 25 | | 43 | AB | |
| MW | PH1819-2 | 1780-1900 | 2 | 10 | 25 | -32 | 35 | AB | |
| MW | PH1819-4N | 1780-1900 | 4 | 10 | 26 | -30 | 25 | AB | |
| MW | PH1819-10 | 1780-1900 | 10 | 9 | 25 | -28 | 40 | AB | |
| MW | PH1819-15N | 1780-1900 | 15 | 7 | 26 | -30 | 25 | AB | |
| MW | PH1819-33 | 1805-1880 | 33 | 7 | 25 | -28 | 40 | AB | |
| MW | PH1819-45 | 1805-1880 | 45 | 8 | 25 | | 40 | AB | |
| MW | PH1920-33 | 1930-1990 | 33 | 7 | 25 | | 40 | AB | |
| MW | PH1920-45 | 1930-1990 | 45 | 8 | 25 | | 40 | AB | |
| MO | MHW1815 | 1805-1880 | 15 | 30 | 26 | | | AB | Amplifier Module |
| MO | MHW1915 | 1930-1990 | 15 | 29 | 26 | | | AB | Amplifier Module |

The following four MO devices have been developed for linear amplifiers in the PDC, PCS, or DCS 1800 base station applications.

| Brand | Part Number | Frequency MHZ | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|-------------------|
| MO | MRF6404 | 1860-1900 | 30 | 8.2 | 26 | | 43 | AB | ~TP4035 (matched) |
| MO | MRF20030R | 1800-2000 | 30 | 11 | 26 | -30 | 38 | AB | matched |
| MO | MRF20060R | 1800-2000 | 60 | 9.8 | 26 | -32 | 35 | AB | matched |
| MO | MRF20060RS | 1800-2000 | 60 | 9.8 | 26 | -32 | 35 | AB | matched |

HIGH IMPEDANCE TECHNOLOGY (HITs) - 50 OHM Power Hybrid

| Brand | Part Number | Frequency MHZ | P OUT Watts | Gain dB | Supply Voltage | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|--------------------|
| EC | PTH31043 | 1800-1900 | 10 | 12 | 28 | HIT1819-10 - Old # |
| EC | PTH31001 | 1800-1900 | 35 | 12 | 28 | HIT1819-35 - Old # |
| EC | PTH31042 | 1900-2000 | 10 | 12 | 28 | HIT1920-10 - Old # |
| EC | PTH31002 | 1900-2000 | 35 | 12 | 28 | HIT1920-35 - Old # |

Dual Stage

| | | | | | | |
|----|----------|-----------|----|----|----|--|
| EC | PTH32003 | 1930-1990 | 25 | 24 | 26 | |
|----|----------|-----------|----|----|----|--|

These devices are designed for applications requiring linear power amplification in the PCS frequency range.

**3G, WCDMA, UMTS, CDMA2000
TRANSISTORS**

LDMOS

| Brand | Part Number | Frequency MHZ | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-----------|------------------|------------------|----------------|-------------|-------------------|------------|-----------|-----------|-----------------------------------|
| EC | PTF10123 | 2100-2200 | 5 | 11 | 28 | | | | |
| EC | PTF10119 | 2100-2200 | 12 | 10 | 28 | | | | |
| EC | PTF10048 | 2100-2200 | 30 | 10 | 28 | -30 | 40 | AB | |
| EC | PTF10122 | 2100-2200 | 50 | 10 | 28 | -30 | 35 | AB | |
| EC | PTF10134 | 2100-2200 | 100 | 10 | 28 | | | | |
| MO | MRF281SR1 | 1930-2000 | 4pep | 12.5 | 26 | | 33 | A, AB | TAPE & REEL (500 UNITS) matched |
| MO | MRF281ZR1 | 1930-2000 | 4pep | 12.5 | 26 | | 33 | A, AB | TAPE & REEL (500 UNITS) matched |
| MO | MRF282SR1 | 1930-2000 | 10pep | 11.5 | 26 | -31 | 28 | A, AB | TAPE & REEL (500 UNITS) matched |
| MO | MRF282ZR1 | 1930-2000 | 10pep | 11.5 | 26 | -31 | 28 | A, AB | TAPE & REEL (500 UNITS) matched |
| MO | MRF284 | 1930-2000 | 30pep | 10.5 | 26 | -32 | 35 | A, AB | unmatched |
| MO | MRF284SR1 | 1930-2000 | 30pep | 10.5 | 26 | -32 | 35 | A, AB | TAPE & REEL (500 UNITS) unmatched |
| MO | MRF286 | 1930-2000 | 60pep | 10.5 | 26 | | 31 | A, AB | matched |
| MO | MRF286S | 1930-2000 | 60pep | 10.5 | 26 | | 31 | A, AB | matched |
| MO | MRF21030 | 2110-2170 | 30pep | 13 | 28 | | 33 | AB | matched |
| MO | MRF21030S | 2110-2170 | 30pep | 13 | 28 | | 33 | AB | matched |
| MO | MRF21060 | 2110-2170 | 60pep | 12.5 | 28 | -30 | 34 | AB | matched |
| MO | MRF21060S | 2110-2170 | 60pep | 12.5 | 28 | -30 | 34 | AB | matched |
| MO | MRF21090 | 2110-2170 | 90pep | 11.7 | 28 | | 33 | AB | matched |
| MO | MRF21090S | 2110-2170 | 90pep | 11.7 | 28 | | 33 | AB | matched |
| MO | MRF21120 | 2110-2170 | 120pep | 11.2 | 28 | | 34.5 | AB | matched (push-pull) |
| MO | MRF21120S | 2110-2170 | 120pep | 11.2 | 28 | | 34.5 | AB | matched (push-pull) |
| MO | MRF21125 | 2110-2170 | 125pep | 12 | 28 | -30 | 34 | AB | matched |
| MO | MRF21125S | 2110-2170 | 125pep | 12 | 28 | -30 | 34 | AB | matched |
| MO | MRF21180 | 2110-2170 | 160pep | 11.3 | 28 | | 33 | AB | matched (push-pull) |
| MO | MRF21180S | 2110-2170 | 160pep | 11.3 | 28 | | 33 | AB | matched (push-pull) |
| MO | MHL21336 | 2110-2170 | 3 | 31 | 26 | | | A | Amplifier Module |

LDMOS CONTINUED

| Brand | Part Number | Frequency MHZ | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| SF | SL-2522 | 2000-2200 | 25 | 10 | 26.5 | -30 | | AB | |
| SF | SL-4522 | 2000-2200 | 45 | 9.5 | 26.5 | -30 | | AB | |
| SF | SL-2524 | 2300-2400 | 25 | 10 | 26.5 | -30 | | AB | |
| SF | SL-4524 | 2300-2400 | 45 | 8.5 | 26.5 | -30 | | AB | |

BIPOLARS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| MY | SD1851 | 2000 | 29 | 8 | 20 | | | A | |
| MY | SD1853 | 2000 | 31.8 | 7 | 20 | | | A | |
| MY | MSC80064 | 2000 | 20.5 | 9 | 18 | | | A | |
| MY | MS3003 | 2000 | 24 | 10 | 20 | | | A | |
| MY | MS3006 | 2000 | 27 | 8 | 20 | | | A | |
| MY | MS3009 | 2000 | 28 | 7.5 | 18 | | | A | |
| MY | MS3011 | 2000 | 30 | 7 | 18 | | | A | |
| MY | MS3013 | 2000 | 31.7 | 6 | 18 | | | A | |
| MY | MS3014 | 2000 | 34 | 6 | 18 | | | A | |
| MY | SD1850 | 2300 | 23 | 11 | 15 | | | A | |
| SM | MSC80195 | 2000 | 0.75 | 7.5 | 18 | | | A | |
| SM | MSC80185 | 2000 | 0.75 | 7.5 | 18 | | | A | |
| SM | MSC80196 | 2000 | 1 | 7 | 18 | | | A | |
| SM | MSC80186 | 2000 | 1 | 7 | 18 | | | A | |
| SM | MSC80197 | 2000 | 1.5 | 6 | 18 | | | A | |

WCDMA

| Brand | Part Number | Frequency MHZ | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| EC | PTB20231 | 2100-2200 | 18 | 8 | 26 | | 40 | AB | |
| EC | PTB20245 | 2100-2200 | 35 | 7.5 | 26 | | 40 | AB | |
| EC | PTB20235 | 2100-2200 | 70 | 8 | 26 | | 40 | AB | |

**PDC, DAB, L-BAND, SATCOM, TELEMETRY, INMARSAT
TRANSISTORS**

LDMOS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|--------------|
| EC | PTF10111 | 1500 | 6 | 14 | 28 | -30 | 55 | AB | FLANGE |
| EC | PTF10021 | 1400-1600 | 30 | 11 | 28 | -30 | 48 | AB | INT. MATCHED |

BIPOLARS

PDC/DAB

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| EC | PTB20248 | 1465-1513 | 0.7 | 10 | 26 | | | A | |
| EC | PTB20046 | 1465-1513 | 1 | 10.5 | 26 | -23 | 18 | AB | |
| EC | PTB20249 | 1465-1513 | 2.5 | 9.5 | 26 | | | AB | |
| EC | PTB20051 | 1465-1513 | 6 | 8 | 26 | | 35 | AB | |
| EC | PTB20239 | 1465-1513 | 12 | 8 | 26 | | 40 | AB | |
| EC | PTB20074 | 1465-1513 | 14 | 7 | 26 | -30 | 30 | AB | |
| EC | PTB20141 | 1465-1513 | 18 | 8.5 | 26 | -29 | 45 | AB | |
| EC | PTB20124 | 1465-1513 | 40 | 7 | 26 | | 50 | AB | |
| EC | PTB20202 | 1465-1513 | 125 | 8 | 26 | -32 | | AB | |
| MW | PH1516-2 | 1450-1550 | 2 | 10 | 25 | -32 | 35 | AB | |
| MW | PH1516-10 | 1450-1550 | 10 | 10 | 25 | -30 | 40 | AB | |
| MW | PH1516-30 | 1450-1550 | 30 | 10 | 25 | -28 | 40 | AB | |
| MW | PH1516-60 | 1450-1550 | 50 | 12 | 26 | -28 | 30 | AB | |
| MW | PH1516-100 | 1450-1550 | 100 | 10 | 26 | -30 | 30 | AB | |

INMARSAT

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| EC | PTB20077 | 1525-1660 | 0.7 | 10 | 26 | | | A | |
| EC | PTB20078 | 1525-1660 | 2.5 | 9 | 26 | | | AB | |
| EC | PTB20228 | 1600-1700 | 6.5 | 8.5 | 26 | | 40 | AB | |
| EC | PTB20079 | 1600-1700 | 10 | 9 | 26 | | 37 | AB | |
| EC | PTB20080 | 1600-1700 | 25 | 9 | 26 | | 40 | AB | |

INMARSAT CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|------------------|
| MO | MRF16030 | 1600-1640 | 30 | 7.5 | 28 | | 40 | C | matched |
| SM | STM1645-10 | 1625-1665 | 10 | 30 | 28 | | | | Amplifier Module |
| SM | STM1645-30 | 1625-1665 | 30 | 35 | 28 | | | | Amplifier Module |

SATCOM

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| GZ | 16AM08 | 1600-1700 | 8 | 8 | 22 | | | A | |
| GZ | 1617AM10 | 1600-1700 | 10 | 11 | 18 | | | A | |
| GZ | 16AM12 | 1600-1700 | 12 | 8 | 22 | | | A | |
| GZ | 1617AB5 | 1600-1700 | 5 | 10 | 26 | | | AB | |
| GZ | 1617AB15 | 1600-1700 | 15 | 10 | 26 | | | AB | |
| GZ | 1617AB35 | 1600-1700 | 35 | 9 | 25 | | | AB | |
| MW | PH1617-2 | 1600-1700 | 2 | 10 | 25 | -32 | 35 | AB | |
| MW | PH1617-4N | 1600-1700 | 4 | 12 | 26 | -30 | 35 | AB | |
| MW | PH1617-10 | 1600-1700 | 10 | 10 | 25 | -30 | 40 | AB | |
| MW | PH1617-12N | 1600-1700 | 13.5 | 8.5 | 26 | -28 | 25 | AB | |
| MW | PH1617-30 | 1600-1700 | 30 | 10 | 25 | -28 | 40 | AB | |
| MY | SD1891 | 1600-1700 | 3 | 10.8 | 28 | | 40 | C | |
| MY | MS3101 | 1600-1700 | 5 | 14 | 28 | | 45 | C | |
| MY | SD1893 | 1600-1700 | 10 | 11 | 28 | | 40 | C | |
| MY | MS3102 | 1600-1700 | 10 | 11 | 28 | | 48 | C | |
| MY | MS3151 | 1600-1700 | 15 | 9.2 | 28 | | 45 | C | |
| MY | MS3152 | 1600-1700 | 20 | 9.2 | 28 | | 48 | C | |
| MY | MS3103 | 1600-1700 | 24 | 9 | 28 | | 50 | C | |
| MY | SD1868 | 1600-1700 | 30 | 8.8 | 28 | | 40 | C | |
| MY | MS3153 | 1500-1700 | 12 | 8.5 | 28 | | 55 | C | |
| MY | MS3154 | 1500-1700 | 25 | 8.5 | 28 | | 55 | C | |
| MY | MS3155 | 1600-1700 | 32 | 9 | 28 | | 40 | C | |
| SM | SD1894 | 1600-1700 | 4.5 | 10 | 28 | | 50 | C | |
| SM | SD1891-03 | 1600-1700 | 5 | 14 | 28 | | 45 | C | |

SATCOM CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|-------|-------------|------------------|----------------|------------|-------------------|------------|----------|-------|---------|
| SM | SD1893-03 | 1600-1700 | 10 | 11 | 28 | | 40 | C | |
| SM | SD1897 | 1600-1700 | 10 | 11 | 28 | | 48 | C | |
| SM | SD1895-03 | 1600-1700 | 20 | 9.2 | 28 | | 48 | C | |
| SM | SD1888-03 | 1600-1700 | 24 | 9 | 28 | | 50 | C | |
| SM | SD1898 | 1600-1700 | 32 | 9 | 28 | | 40 | C | |
| SM | SD1899 | 1600-1700 | 30 | 9.3 | 28 | | 45 | C | |
| SM | AM1517-012M | 1620-1660 | 12 | 8.5 | 28 | | 55 | C | |
| SM | AM1517-012S | 1625-1675 | 12 | 8.5 | 28 | | 55 | C | |
| SM | AM1517-025M | 1620-1660 | 25 | 8.5 | 28 | | 55 | C | |
| SM | AM1517-025S | 1625-1675 | 25 | 8.5 | 28 | | 55 | C | |

L-BAND

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Pulse Width usec | Duty Cycle % |
|-----------|-------------------|------------------|----------------|------------|-------------------|----------|----------|---------------------|-----------------|
| GZ | 1214-30 | 1215-1400 | 30 | 7 | 28 | | C | 2000 | 20 |
| GZ | 1214-55 | 1215-1400 | 55 | 7 | 28 | | C | 2000 | 20 |
| GZ | 1214-300 | 1215-1400 | 300 | 8.1 | 50 | | C | 100 | 10 |
| SM | AM80814-005 | 850-1400 | 5 | 8.5 | 28 | | C | | |
| SM | AM80814-025 | 850-1400 | 25 | 7 | 35 | | C | | |
| SM | AM1214-300 | 1235-1365 | 270 | 6.3 | 50 | | C | | |
| SM | AM81214-006 | 1215-1400 | 5.5 | 9 | 28 | | C | | |
| SM | AM81214-015 | 1215-1400 | 14.5 | 8.6 | 28 | | C | | |
| SM | AM81214-030 | 1215-1400 | 26 | 7.2 | 28 | | C | | |
| SM | AM81214-060 | 1215-1400 | 55 | 6.6 | 28 | | C | | |
| SM | AM1214-100 | 1215-1400 | 100 | 6 | 28 | | C | | |
| SM | AM1214-175 | 1215-1400 | 160 | 7.3 | 40 | | C | | |
| SM | AM1214-200 | 1215-1400 | 200 | 7 | 40 | | C | | |
| SM | AM1214-130 | 1215-1400 | 130 | 8 | 50 | | C | | |
| SM | AM1214-250 | 1215-1400 | 250 | 7 | 50 | | C | | |
| SM | AM1214-325 | 1215-1400 | 325 | 6.4 | 50 | | C | | |
| SM | AM1416-220 | 1450-1600 | 200 | 7 | 50 | | C | | |

TELEMETRY

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | IMD dBc | EFF % | Class | Comment |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------------|------------------|--------------|----------------|
| GZ | 1719-35 | 1720-1850 | 35 | 7.5 | 28 | | | C | |
| GZ | 1819-35 | 1750-1850 | 35 | 7 | 28 | | | C | |
| GZ | 2224-12L | 2200-2400 | 12 | 7.5 | 22 | | | C | |
| GZ | 2425-25 | 2410-2470 | 25 | 7.5 | 24 | | | C | |
| MY | MS3301 | 1750-1850 | 28 | 6.7 | 28 | | | C | |
| MY | MS3381 | 1750-1850 | 40 | 7 | 28 | | | C | |
| MY | AM82022-020 | 2000-2150 | 20 | 7 | 22 | | | C | |
| MY | AM82223-020 | 2200-2300 | 20 | 7 | 22 | | | C | |
| MY | MS3382 | 2200-2300 | 9 | 6.5 | 24 | | | C | |
| MY | AM82223-018 | 2200-2300 | 18 | 6.5 | 24 | | | C | |
| MY | AM82324-020 | 2300-2400 | 20 | 6 | 22 | | | C | |
| SM | AM81720-012 | 1700-2000 | 12 | 7.4 | 24 | | | C | |
| SM | AM81719-030 | 1750-1850 | 28 | 6.7 | 28 | | | C | |
| SM | AM81719-040 | 1750-1850 | 40 | 7 | 28 | | | C | |
| SM | AM82223-010 | 2200-2300 | 9 | 6.5 | 24 | | | C | |

**AVIONICS
(DME, IFF)**

DME

BIPOLARS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Pulse Width usec | Duty Cycle % | Comments |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|------------------|--------------|-----------------------------|-------------------------|-----------------|
| GZ | 0912-7 | 960-1215 | 7 | 8.5 | 50 | 25 | C | 10 | 1 | |
| GZ | 0912-25 | 960-1215 | 25 | 8.5 | 50 | 45 | C | 10 | 1 | |
| GZ | 0912-45 | 960-1215 | 45 | 8 | 50 | 45 | C | 10 | 1 | |
| GZ | DMEG250 | 960-1215 | 250 | 6.2 | 50 | 35 | C | 10 | 5 | |
| GZ | 1002MP | 1025-1150 | 2 | 9 | 35 | 40 | C | 10 | 1 | |
| GZ | 1004MP | 1025-1150 | 4 | 9 | 35 | 35 | C | 10 | 1 | |
| GZ | 1015MP | 1025-1150 | 15 | 10 | 50 | 35 | C | 10 | 1 | |
| GZ | 1035MP | 1025-1150 | 35 | 10.6 | 50 | 45 | C | 10 | 1 | |
| GZ | 1075MP | 1025-1150 | 75 | 7.6 | 50 | 45 | C | 10 | 1 | |
| GZ | DME150 | 1025-1150 | 150 | 7.8 | 50 | 40 | C | 10 | 1 | |
| GZ | DME375 | 1025-1150 | 375 | 7 | 50 | 40 | C | 10 | 1 | |
| GZ | DME375A | 1025-1150 | 375 | 6.5 | 50 | 40 | C | 10 | 1 | |
| GZ | DME500 | 1025-1150 | 500 | 6 | 50 | 35 | C | 10 | 1 | |
| GZ | DME700 | 1025-1150 | 700 | 8 | 50 | 35 | C | 10 | 1 | |
| MO | MRF10005 | 960-1215 | 5 | 8.5 | 28 | 55 | C | | | matched |
| MO | MRF10031 | 960-1215 | 30 | 10 | 36 | 45 | C | | | matched |
| MO | MRF10150 | 1025-1150 | 150 | 10 | 50 | 45 | C | | | matched |
| MO | MRF10350 | 1025-1150 | 350 | 9 | 50 | 45 | C | | | matched |
| MO | MRF10502 | 1025-1150 | 500 | 9 | 50 | 45 | C | | | matched |
| MY | MS2203 | 1025-1150 | 0.6 | 10.8 | 18 | | A | CW | CW | |
| MY | MS2205 | 1025-1150 | 4 | 9 | 28 | 35 | C | 10 | 1 | |
| MY | SD1526-01 | 1025-1150 | 5 | 9.5 | 28 | | C | 10 | 1 | |
| MY | MS2201 | 1025-1150 | 2 | 9 | 35 | 35 | C | 10 | 1 | |
| MY | MSC1015M | 1025-1150 | 15 | 10 | 50 | 35 | C | 10 | 1 | |
| MY | MS2553 | 1025-1150 | 35 | 10.6 | 50 | 43 | C | 10 | 1 | |
| MY | MSC1090M | 1025-1150 | 90 | 8.4 | 50 | 35 | C | 10 | 1 | |
| MY | SD1536-03 | 1025-1150 | 90 | 8.4 | 50 | | C | 10 | 1 | |

DME continued

BIPOLARS CONTINUED

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Pulse Width usec | Duty Cycle % | Comments |
|-------|-------------|------------------|----------------|------------|-------------------|----------|-------|---------------------|-----------------|----------|
| MY | MSC1150M | 1025-1150 | 150 | 7.7 | 50 | 40 | C | 10 | 1 | |
| MY | MSC1175M | 1025-1150 | 175 | 7.6 | 50 | 40 | C | 10 | 1 | |
| MY | MSC1250M | 1025-1150 | 250 | 6.2 | 50 | 40 | C | 10 | 1 | |
| MY | MS2421 | 1025-1150 | 300 | 6.3 | 50 | 35 | C | 10 | 1 | |
| MY | MSC1350M | 1025-1150 | 325 | 6.7 | 50 | 40 | C | 10 | 1 | |
| MY | MSC1400M | 1025-1150 | 400 | 6.5 | 50 | 40 | C | 10 | 1 | |
| MY | MSC1550M | 1025-1150 | 550 | 5.6 | 50 | 35 | C | 10 | 1 | |
| SM | MSC1000M | 1025-1150 | 0.6 | 9 | 18 | | A | CW | CW | |
| SM | MSC1000MP | 1025-1150 | 0.6 | 9 | 18 | | A | 10 | 1 | |
| SM | MSC1004M | 1025-1150 | 4 | 9 | 28 | 35 | C | 10 | 1 | |
| SM | MSC1004MP | 1025-1150 | 4 | 9 | 28 | 35 | C | 10 | 1 | |
| SM | SD1528-06 | 1025-1150 | 15 | 10 | 50 | 30 | C | 10 | 1 | |
| SM | SD1528-08 | 1025-1150 | 15 | 10 | 50 | 30 | C | 10 | 1 | |
| SM | MSC81035M | 1025-1150 | 35 | 10.6 | 50 | 43 | C | 10 | 1 | |
| SM | MSC81035MP | 1025-1150 | 35 | 10.6 | 50 | 43 | C | 10 | 1 | |
| SM | SD1530-01 | 1025-1150 | 35 | 8 | 50 | 30 | C | 10 | 1 | |
| SM | SD1530-08 | 1025-1150 | 35 | 8.5 | 50 | 30 | C | 10 | 1 | |
| SM | SD1534-01 | 1025-1150 | 75 | 7.6 | 50 | | C | 10 | 1 | |
| SM | SD1534-08 | 1025-1150 | 75 | 7.4 | 50 | | C | 10 | 1 | |
| SM | SD1538-02 | 1025-1150 | 150 | 7.8 | 50 | | C | 10 | 1 | |
| SM | SD1538-08 | 1025-1150 | 50 | 7.8 | 50 | | C | 10 | 1 | |
| SM | MSC81250M | 1025-1150 | 250 | 6.2 | 50 | 40 | C | 10 | 1 | |
| SM | SD1540 | 1025-1150 | 300 | 6.3 | 50 | 35 | C | 10 | 1 | |
| SM | SD1540-08 | 1025-1150 | 300 | 6.3 | 50 | 35 | C | 10 | 1 | |
| SM | MSC81325M | 1025-1150 | 325 | 6.7 | 50 | 40 | C | 10 | 1 | |
| SM | SD1541-01 | 1025-1150 | 400 | 6.5 | 50 | | C | 10 | 1 | |
| SM | MSC81400M | 1025-1150 | 400 | 6.5 | 50 | 40 | C | 10 | 1 | |
| SM | SD1542 | 1025-1150 | 550 | 5.6 | 50 | | C | 10 | 1 | |

| IFF | | | | | | | | | |
|-------|-------------|------------------|----------------|------------|-------------------|----------|-------|---------------------|-----------------|
| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Pulse Width usec | Duty Cycle % |
| GZ | ITC1100 | 1031 | 1000 | 10 | 50 | 45 | C | 1 | 1 |
| GZ | TPR1000 | 1090 | 1000 | 6 | 45 | 43 | C | 10 | 1 |
| GZ | TPR175 | 1090 | 175 | 8.5 | 50 | 40 | C | 10 | 1 |
| GZ | TPR400 | 1090 | 400 | 7.3 | 50 | 40 | C | 10 | 1 |
| GZ | TPR500 | 1090 | 500 | 5.2 | 50 | 35 | C | 10 | 1 |
| GZ | TPR500A | 1090 | 500 | 5.7 | 50 | 35 | C | 10 | 1 |
| GZ | TPR700 | 1090 | 700 | 7 | 50 | 35 | C | 10 | 1 |
| MW | PH1090-550S | 1090 | 550 | 7.5 | 50 | 55 | C | 10 | 1 |
| MY | MSC1100 | 1090 | 95 | 9.7 | 40 | 40 | C | 10 | 1 |
| MY | MSC1150M | 1090 | 150 | 8.7 | 43 | 35 | C | 10 | 1 |
| MY | SD1527-08 | 1090 | 5 | 11.5 | 50 | 35 | C | 10 | 1 |
| MY | MSC1300M | 1090 | 300 | 6.3 | 50 | 40 | C | 10 | 1 |
| MY | MSC1350M | 1090 | 350 | 6.9 | 50 | 40 | C | 10 | 1 |
| MY | MSC1400M | 1090 | 390 | 6.8 | 50 | 35 | C | 10 | 1 |
| MY | MS2442 | 1090 | 450 | 7 | 50 | 35 | C | 10 | 1 |
| MY | MSC1450M | 1090 | 450 | 7 | 50 | 40 | C | 10 | 1 |
| MY | MS2473 | 1090 | 600 | 6 | 50 | 35 | C | 10 | 1 |
| MY | MSC1600M | 1090 | 600 | 6 | 50 | 35 | C | 10 | 1 |
| MY | MS2475 | 1090 | 720 | 6.8 | 50 | 35 | C | 10 | 1 |
| SM | MSC81350M | 1090 | 350 | 6.9 | 50 | 40 | C | 10 | 1 |
| SM | SD1541-09 | 1090 | 450 | 7 | 50 | | C | 10 | 1 |
| SM | MSC81450M | 1090 | 450 | 7 | 50 | 40 | C | 10 | 1 |
| SM | SD1542-04 | 1090 | 600 | 6 | 50 | | C | 10 | 1 |
| SM | SD1542-42 | 1090 | 600 | 6 | 50 | 35 | C | 10 | 1 |

**AVIONICS
(JTIDS, TACAN, MODE- S, TCAS)**

| <u>BIPOLARS</u> | | JTIDS | | | | | | | | |
|------------------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|------------------|--------------|-----------------------------|-------------------------|-----------------|
| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Pulse Width usec | Duty Cycle % | Comments |
| GZ | JTDB25 | 960-1215 | 25 | 7 | 36 | 40 | C | JTIDS PULSE | BURST | |
| GZ | JTDA50 | 960-1215 | 50 | 12 | 36 | 40 | C | JTIDS PULSE | BURST | |
| GZ | JTDB75 | 960-1215 | 75 | 7 | 36 | 40 | C | JTIDS PULSE | BURST | |
| GZ | JTDA150A | 960-1215 | 145 | 8 | 36 | 45 | C | JTIDS PULSE | BURST | |
| MO | MRF10005 | 960-1215 | 5 | 8.5 | 28 | 55 | C | | | matched |
| MO | MRF10031 | 960-1215 | 30 | 10 | 36 | 45 | C | | | matched |
| MO | MRF10150 | 1025-1150 | 150 | 10 | 50 | 45 | C | | | matched |
| MO | MRF10350 | 1025-1150 | 350 | 9 | 50 | 45 | C | | | matched |
| MO | MRF10502 | 1025-1150 | 500 | 9 | 50 | 45 | C | | | matched |
| MY | MS2211 | 960-1215 | 6 | 9.3 | 28 | 45 | C | JTIDS PULSE | BURST | |
| MY | MS2212 | 960-1215 | 15 | 8.1 | 28 | 45 | C | JTIDS PULSE | BURST | |
| MY | MS2213 | 960-1215 | 30 | 7.8 | 35 | 40 | C | JTIDS PULSE | BURST | |
| MY | MS2214 | 960-1215 | 85 | 7.5 | 35 | 40 | C | JTIDS PULSE | BURST | |
| MY | MS2215 | 960-1215 | 150 | 7.5 | 35 | 45 | C | JTIDS PULSE | BURST | |
| SM | AM80912-005 | 960-1215 | 6 | 9.3 | 28 | 45 | C | JTIDS PULSE | BURST | |
| SM | AM80912-015 | 960-1215 | 15 | 8.1 | 28 | 45 | C | JTIDS PULSE | BURST | |
| SM | AM80912-030 | 960-1215 | 30 | 7.8 | 35 | 40 | C | JTIDS PULSE | BURST | |
| SM | AM80912-085 | 960-1215 | 85 | 7.5 | 35 | 40 | C | JTIDS PULSE | BURST | |
| SM | AM0912-150 | 960-1215 | 150 | 7.5 | 35 | 45 | C | JTIDS PULSE | BURST | |

TACAN

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Pulse Width usec | Duty Cycle % |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|------------------|--------------|-----------------------------|-------------------------|
| GZ | TAN15 | 960-1215 | 15 | 7 | 40 | 40 | C | 20 | 5 |
| GZ | TAN75A | 960-1215 | 75 | 8 | 50 | 40 | C | 20 | 5 |
| GZ | TAN150 | 960-1215 | 150 | 7 | 50 | 38 | C | 20 | 5 |
| GZ | TAN250A | 960-1215 | 250 | 6.5 | 50 | 40 | C | 20 | 5 |
| GZ | TAN300 | 960-1215 | 300 | 6.9 | 50 | 45 | C | 10 | 10 |
| GZ | TAN350 | 960-1215 | 350 | 7 | 50 | 35 | C | 10 | 10 |
| MY | MS2209 | 960-1215 | 90 | 8.4 | 50 | 38 | C | 10 | 10 |
| MY | MS2267 | 960-1215 | 250 | 8 | 50 | 38 | C | 10 | 10 |
| MY | MS2210 | 960-1215 | 300 | 7 | 50 | 38 | C | 10 | 10 |
| MY | MS2272 | 960-1215 | 350 | 7.6 | 50 | 38 | C | 10 | 10 |
| SM | AM0912-080 | 960-1215 | 90 | 8.4 | 50 | 38 | C | 10 | 10 |
| SM | SD8250 | 960-1215 | 250 | 8 | 50 | 38 | C | 20 | 5 |
| SM | AM0912-300 | 960-1215 | 300 | 7 | 50 | 38 | C | 10 | 10 |

MODE-S

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Pulse Width usec | Duty Cycle % | Comments |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|------------------|--------------|-----------------------------|-------------------------|-----------------|
| GZ | MDS170L | 1090 | 170 | 7 | 36 | 35 | C | 120 | 4 | |
| GZ | MDS400 | 1090 | 400 | 6.5 | 45 | 35 | C | 120 | 2 | |
| GZ | MDS350L | 1090 | 350 | 8 | 45 | 47 | C | 250 | 10 | |
| GZ | MDS550L | 1090 | 550 | 7.8 | 45 | 45 | C | ELM Burst | | |
| GZ | MDS800 | 1090 | 800 | 8.5 | 50 | 40 | C | 128 | 2 | |
| MO | MRF10005 | 960-1215 | 5 | 8.5 | 28 | 55 | C | | | matched |
| MO | MRF10031 | 960-1215 | 30 | 10 | 36 | 45 | C | | | matched |
| MO | MRF10150 | 1025-1150 | 150 | 10 | 50 | 45 | C | | | matched |
| MO | MRF10350 | 1025-1150 | 350 | 9 | 50 | 45 | C | | | matched |
| MO | MRF10502 | 1025-1150 | 500 | 9 | 50 | 45 | C | | | matched |

MODE-S continued

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Pulse Width usec | Duty Cycle % |
|-------|-------------|------------------|----------------|------------|-------------------|----------|-------|---------------------|-----------------|
| MW | PH1090-175L | 1030-1090 | 175 | 8.3 | 45 | 55 | C | 250 | 10 |
| MW | PH1090-350L | 1030-1090 | 350 | 8 | 45 | 55 | C | 250 | 10 |
| MY | MS2223 | 1090 | 70 | 6.7 | 28 | 45 | C | 100 | 2 |
| MY | MS2230 | 1090 | 325 | 7.7 | 40 | 40 | C | 200 | 5 |
| SM | AM1011-070 | 1090 | 70 | 6.7 | 28 | 45 | C | 100 | 2 |
| SM | AM1011-300 | 1090 | 300 | 7.3 | 36 | 40 | C | 200 | 5 |
| SM | AM1011-075 | 1090 | 75 | 9.2 | 50 | 48 | C | 32 | 2 |
| SM | AM1011-400 | 1090 | 400 | 8 | 50 | 45 | C | 32 | 2 |
| SM | AM1011-500 | 1090 | 500 | 8.5 | 50 | 40 | C | 32 | 2 |

TCAS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Pulse Width usec | Duty Cycle % | Comments |
|-------|-------------|------------------|----------------|------------|-------------------|----------|-------|---------------------|-----------------|----------|
| GZ | TCS450 | 1030 | 450 | 6.5 | 45 | 35 | C | 32 | 2 | |
| GZ | TCS600 | 1030 | 600 | 8.7 | 50 | 50 | C | 32 | 1 | |
| GZ | TCS800 | 1030 | 800 | 8 | 50 | 45 | C | 32 | 1 | |
| MO | MRF10005 | 960-1215 | 5 | 8.5 | 28 | 55 | C | | | matched |
| MO | MRF10031 | 960-1215 | 30 | 10 | 36 | 45 | C | | | matched |
| MO | MRF10120 | 960-1215 | 120 | 8 | 36 | 55 | C | | | matched |
| MO | MRF10150 | 1025-1150 | 150 | 10 | 50 | 45 | C | | | matched |
| MO | MRF10350 | 1025-1150 | 350 | 9 | 50 | 45 | C | | | matched |
| MO | MRF10502 | 1025-1150 | 500 | 9 | 50 | 45 | C | | | matched |
| MY | MS2229 | 1090 | 55 | 8.7 | 50 | 45 | C | 32 | 2 | |
| MY | MS2228 | 1090 | 75 | 8.7 | 50 | 45 | C | 32 | 2 | |
| MY | MS2207 | 1090 | 400 | 8 | 50 | 45 | C | 32 | 2 | |
| MY | MS2208 | 1090 | 500 | 8.5 | 50 | 40 | C | 32 | 2 | |

TCAS continued

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Pulse Width usec | Duty Cycle % | Comments |
|-------|-------------|------------------|----------------|------------|-------------------|----------|-------|---------------------|-----------------|----------|
| SM | AM1011-075 | 1090 | 75 | 9.2 | 50 | 48 | C | 32 | 2 | |
| SM | AM1011-400 | 1090 | 400 | 8 | 50 | 45 | C | 32 | 2 | |
| SM | AM1011-500 | 1090 | 500 | 8.5 | 50 | 40 | C | 32 | 2 | |

**AVIONICS
(S-BAND)**

S - BAND

BIPOLARS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | EFF % | Class | Pulse Width usec | Duty Cycle % | Comments |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|------------------|--------------|-----------------------------|-------------------------|-----------------------|
| MY | MS2606 | 2700-2900 | 28 | 6.5 | 40 | 30 | C | 50 | 10 | |
| MY | AM82729-060 | 2700-2900 | 60 | 6.6 | 40 | 35 | C | 50 | 10 | |
| MY | MS2607 | 2700-2900 | 125 | 7 | 40 | 35 | C | 50 | 10 | |
| MY | MS2601 | 2700-3100 | 1 | 5.2 | 30 | 27 | C | 100 | 10 | |
| MY | MS2602 | 2700-3100 | 3 | 5.7 | 30 | 27 | C | 100 | 10 | |
| MY | MS2603 | 2700-3100 | 50 | 12 | 30 | 27 | C | 100 | 10 | |
| MY | MS2608 | 2700-3100 | 12 | 6 | 40 | 30 | C | 100 | 10 | |
| MY | MS2604 | 2700-3100 | 25 | 6.2 | 40 | 30 | C | 100 | 10 | |
| MY | MS2609 | 2700-3100 | 50 | 6 | 40 | 30 | C | 100 | 10 | |
| MY | MS2619 | 2900-3100 | 105 | 6.2 | 42 | 32 | C | 50 | 10 | |
| MY | MS2611 | 3100-3500 | 1 | 5.2 | 30 | 27 | C | 100 | 10 | |
| MY | MS2612 | 3100-3500 | 3 | 5.7 | 30 | 27 | C | 100 | 10 | |
| MY | MS2613 | 3100-3500 | 5 | 5.2 | 30 | 27 | C | 100 | 10 | |
| MY | MS2614 | 3100-3500 | 10 | 5 | 40 | 30 | C | 100 | 10 | |
| MY | MS2615 | 3100-3500 | 15 | 5.2 | 40 | 30 | C | 100 | 10 | |
| MY | MS2616 | 3100-3500 | 30 | 5.5 | 40 | 30 | C | 100 | 10 | |
| MY | MS2617 | 3100-3500 | 40 | 5.1 | 40 | 30 | C | 100 | 10 | |
| MY | MS2618 | 3100-3500 | 50 | 5.2 | 42 | 30 | C | 10 | 10 | |
| SM | AM2729-110 | 2700-2900 | 105 | 6.5 | 40 | 33 | C | 50 | 10 | In Development |

CATV

Forward Amplifiers

| Brand | Part Number | Frequency MHz | Gain dB | Supply Voltage | Class | Comments |
|-----------|-----------------|------------------|-------------|-------------------|----------|-----------------------|
| MO | MHW6342T | 40-550 | 34.5 | 24 | A | HYBRID |
| MO | MHW7182B | 40-750 | 18.5 | 24 | A | HYBRID |
| MO | MHW7185C | 40-750 | 18.8 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW7185CL | 40-750 | 18.5 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW7205C | 40-750 | 19.8 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW7205CL | 40-750 | 19.5 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW7222A | 40-750 | 21.5 | 24 | A | HYBRID |
| MO | MHW7222B | 40-750 | 21.9 | 24 | A | HYBRID |
| MO | MHW7242B | 40-750 | 24 | 24 | A | HYBRID |
| MO | MHW7272A | 40-750 | 27.2 | 24 | A | HYBRID |
| MO | MHW7292 | 40-750 | 29 | 24 | A | HYBRID |
| MO | CA901 | 40-860 | 17 | 24 | A | HYBRID |
| MO | CA922 | 40-860 | 17 | 24 | A | POWER DOUBLING HYBRID |
| MO | CA922A | 40-860 | 17 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW8182B | 40-860 | 18.5 | 24 | A | HYBRID |
| MO | MHW8185 | 40-860 | 18.8 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW8185L | 40-860 | 18.5 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW8185LR | 40-860 | 18.5 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW8185R | 40-860 | 18.8 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW8205 | 40-860 | 19.8 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW8205L | 40-860 | 19.5 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW8205R | 40-860 | 19.8 | 24 | A | POWER DOUBLING HYBRID |
| MO | MHW8222B | 40-860 | 21.9 | 24 | A | HYBRID |
| MO | MHW8242B | 40-860 | 21.9 | 24 | A | HYBRID |
| MO | MHW8272A | 40-860 | 27.2 | 24 | A | HYBRID |
| MO | MHW8292 | 40-860 | 29 | 24 | A | HYBRID |
| MO | MHW9182B | 40-1000 | 18.5 | 24 | A | HYBRID |
| MO | MHW9242A | 40-1000 | 24 | 24 | A | HYBRID |

Forward Amplifiers Continued

| Brand | Part Number | Frequency MHz | Gain dB | Supply Voltage | Class | Comments |
|--------------|--------------------|--------------------------|--------------------|---------------------------|--------------|-----------------|
| SX | PAW583 | 40-550 | 13.5 | 24 | A | HYBRID |
| SX | PAW587 | 40-550 | 21 | 24 | A | HYBRID |
| SX | PAW588 | 40-550 | 33.5 | 24 | A | HYBRID |
| SX | PAW683 | 40-650 | 13.5 | 24 | A | HYBRID |
| SX | PAW688 | 40-650 | 33.5 | 24 | A | HYBRID |
| SX | PAW783 | 40-750 | 13.5 | 24 | A | HYBRID |
| SX | PAW785A | 40-750 | 18 | 24 | A | HYBRID |
| SX | PAW787 | 40-750 | 21 | 24 | A | HYBRID |
| SX | PAW788 | 40-750 | 33.5 | 24 | A | HYBRID |
| SX | PAW885 | 40-860 | 16.5 | 24 | A | HYBRID |
| SX | PAW887B | 40-860 | 28 | 24 | A | HYBRID |
| SX | PAW888 | 40-860 | 33.5 | 24 | A | HYBRID |

Reverse Amplifiers

| Brand | Part Number | Frequency MHz | Gain dB | Supply Voltage | Class | Comments |
|--------------|--------------------|--------------------------|--------------------|---------------------------|--------------|--------------------|
| MO | MHW1254L | 5-050 | 25 | 24 | A | LOW CURRENT HYBRID |
| MO | MHW1304L | 5-050 | 30 | 24 | A | LOW CURRENT HYBRID |
| MO | MHW1224 | 5-200 | 22 | 24 | A | HYBRID |
| MO | MHW1244 | 5-200 | 24 | 24 | A | HYBRID |

AMPLIFIER MODULES

LDMOS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | Class | Comments |
|-------|-------------|------------------|----------------|------------|-------------------|-------|----------|
| MO | MHL9025 | 790-920 | 1.5 | 21.5 | 15 | A | GaAs FET |
| MO | MHL9838 | 800-925 | 8 | 31 | 28 | A | |
| MO | MHL9236 | 800-960 | 2.5 | 30.5 | 26 | A | |
| MO | MHL9236M | 800-960 | 2.5 | 30.5 | 26 | A | |
| MO | MHL9318 | 860-900 | 3 | 17.5 | 28 | A | |
| MO | MHVIC910L | 921-960 | 10 | 22 | 26 | AB | |
| MO | MHW1810-1 | 1805-1880 | 10 | 24 | 26 | AB | |
| MO | MHW1810-2 | 1805-1880 | 10 | 32 | 26 | AB | |
| MO | MHL19338 | 1900-2000 | 4 | 30 | 28 | A | |
| MO | MHW1910-1 | 1930-1990 | 10 | 24 | 26 | AB | |
| MO | MHL19936 | 1900-2000 | | 30 | 28 | A | |
| MO | MHL21336 | 2110-2170 | 3 | 31 | 26 | A | |

BIPOLAR

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | Class | Comments |
|-------|-------------|------------------|----------------|------------|-------------------|-------|---------------------------|
| MO | MHL8115 | 40-1000 | 1 | 17.5 | 15 | A | WIDEBAND LINEAR AMPLIFIER |
| MO | MHL8118 | 40-1000 | 1 | 17.5 | 28 | A | WIDEBAND LINEAR AMPLIFIER |
| MO | MHL9128 | 800-960 | 1.3 | 20 | 28 | A | BASE STATION DRIVERS |
| MO | MHW1815 | 1805-1880 | 15 | 30 | 26 | AB | BASE STATION |
| MO | MHW1915 | 1930-1990 | 15 | 29 | 26 | AB | BASE STATION |

MOSFETS

| Brand | Part Number | Frequency MHz | P OUT Watts | Gain dB | Supply Voltage | Class | Comments |
|--------------|--------------------|--------------------------|------------------------|--------------------|---------------------------|--------------|-----------------|
| SB | LMP1603 | 150-162 | 5.5 | 37.4 | 7.2 | | EFF%=38 |
| SB | LMP2003 | 220-222 | 5.5 | 37.4 | 7.2 | | EFF%=38 |
| SM | STM901-30 | 890-900 | 30 | 35 | 26 | | |
| SM | STM915-16 | 890-915 | 16 | 72 | 12.5 | | |
| SM | STM961-15B | 915-960 | 15 | 28 | 26 | | |
| SM | STM1645-10 | 1625-1665 | 10 | 30 | 28 | | |
| SM | STM1645-30 | 1625-1665 | 30 | 35 | 28 | | |

RF TRANSISTORS - DEFINITIONS

| | |
|---------------------------|---|
| AMPS | Advanced Mobile Phone System (Analog System) |
| Amplifier | One or more stages of transistors with matching and bias circuits |
| Bandwidth | Operating frequency range |
| Bipolar | (< 4 GHz) Advantages: Proven technology, Low \$ / Watt, High Power / Chip area & package ratio, Low ESD Active Semiconductor formed by two P-N junctions whose function is amplification of an electric current. (Emitter, Base, Collector) |
| CATV | Cable TV (50 to 300 MHz) |
| C-BAND | (4-8 GHz) |
| CDMA | Code-Division Multiple Access - A special code is assigned to each signal, allowing a base station to talk with lots of phones at once on the same frequency, and separate them out |
| Class of Operation | A: Very linear, low distortion, low power for voice, AM, digital modulation schemes AB: Less linear, distortion, very high power C: Non-linear, distortion, very high power |
| Current (Amps) | Flow of electric charge (electrons) |
| DBS | Direct Broadcast Satellite (12 GHz) |
| DME | Distance Measuring Equipment - Used in Avionics |
| DMOS | Diffused Metal Oxide Semiconductor |
| DSP | Digital Signal Processor (Baseband) |
| % Efficiency | $RF\ P_{out} / (RF\ P_{in} + DC\ Power)$ |
| Frequency | Expressed in Hertz (Hz) is cycles/second |
| GaAs FET | Gallium Arsenide Field Effect Transistor (> 2 GHz) |
| Gain | P_{out} / P_{in} in dB (Decibels) |
| GSM | Global System for Mobile Communication |
| GPS | Global Positioning System (1.5 GHz) |
| IFF | Identify Friend or Foe - Used in Avionics |
| L-BAND | Radio Frequency Band of 390 to 1550 MHz |
| LDMOS | Laterally Diffused Metal Oxide Semiconductor- Using this structure, chips are directly attached to metal flanges to improve grounding and reduce thermal resistance. Advantages: High gain, usable efficiency, low thermal resistance and superior IMD when applied to cellular radio systems. |
| Output Power | P_{out} |
| PCS | Personal Communications Services (1.9 GHz) |
| PCN | Personal Communications Network (DCS-1800 MHz) |
| S-BAND | Range of frequency between 2.0 GHz and 4.0 GHz |
| WLAN | Wireless Local Area Networks |