

806–960 MHz BAND (continued)

| Device | P _{out} Output Power Watts | Class | P _{in} Input Power Watts | G _p (Min)/Freq. Power Gain dB/MHz | θ _{JC} °C/W | Package/Style |
|------------------------------------|---|---------|---|--|-------------------------|---------------|
| VCC = 24 Volts — Si Bipolar | | | | | | |
| MRF890 | 2 | C | 0.25 | 9/900 | 25 | 305-01/1 |
| TP3019 | 2 | AB or A | 0.25 | 9/960 | 14 | 305-01/1 |
| TP3019S | 2 | AB or A | 0.25 | 9/960 | 14 | 305A-01/1 |
| TP3007(1) | 2 | AB | 0.25 | 9/960 | 21 | 305C-01/1 |
| MRF896 ★ | 3 | AB or A | 0.3 | 10/900 | 7 | 305-01/1 |
| MRF896S ★ | 3 | AB or A | 0.3 | 10/900 | 7 | 305D-01/1 |
| TP3008(1) | 4 | AB | 0.28 | 11.5/960 | 5 | 319-06/2 |
| MRF891 (4) | 5 | C | 0.63 | 9/900 | 7 | 319-06/2 |
| TP3021 | 10 | AB or A | 1 | 10/960 | 5 | 319-06/2 |
| MRF892(4) | 14 | C | 2 | 8.5/900 | 3.5 | 319-06/1 |
| MRF894(4) | 30 | C | 6 | 7/900 | 1.5 | 319-06/1 |
| MRF897 ★ | 30 | AB | 3 | 10/900 | — | 395-01/1 |
| TP3034(1) | 35 | AB | 7 | 7/960 | 2.3 | 319-06/2 |
| MRF898 (4) | 60 | C | 12 | 7/900 | 1 | 333A-04/1 |
| MRF880 ★ | 90 | AB | 24 | 9/900 | 1.3 | 375A-01/1 |
| MRF899 ★ | 150 | AB | 24 | 8/900 | 0.8 | 375A-01/1 |

VCC = 24 Volts — Si FET

| | | | | | | |
|-----------|----|----|-----|-------|-----|-----------|
| TP1301(1) | 15 | AB | 1.9 | 9/960 | 5 | 319C-01/2 |
| TP1302(1) | 30 | AB | 4.7 | 8/960 | 2.5 | 333A-02/3 |

VCC = 26 Volts — Si Bipolar

| | | | | | | |
|------------|------|---------|-------|---------|-----|-----------|
| TP3020A | 2.2 | A | 0.28 | 9/960 | 20 | 244C-02/1 |
| TP3005 | 4 | AB or A | 0.57 | 8.5/960 | 7 | 319-06/2 |
| TP3004 | 5 | AB or A | 0.63 | 9/900 | 7 | 319-06/2 |
| TP3006 ★ | 5 | AB | 0.63 | 9/960 | 7 | 319-06/2 |
| TP3073(1) | 12 | A | 1.5 | 9/960 | 2.5 | 395-01/1 |
| TP3022B | 15 | AB | 2.12 | 8.5/960 | 6 | 319-06/2 |
| TP3032★ | 21 | AB | 4 | 7.5/960 | 3.3 | 319-06/2 |
| TP3031 | 25 | AB | 4 | 8/960 | 2.5 | 319-06/2 |
| TP3033★ | 30 | AB | 5.3 | 7.5/900 | 2.5 | 319-06/2 |
| TP3074(1) | 35 | A | 4.4 | 9/960 | 1.1 | 375A-01/1 |
| TP3024B(6) | 35.5 | AB | 6.35 | 7.5/960 | 3 | 395-01/1 |
| TP3040(4) | 40 | AB | 7.11 | 7.5/960 | 1.8 | 319-06/2 |
| TP3061 (4) | 45 | AB | 7.13 | 8/960 | 1.2 | 333A-02/2 |
| TP3064★ | 50 | AB | 8.9 | 7.5/960 | 1.2 | 333A-02/2 |
| TP3060(4) | 60 | AB | 10.67 | 7.5/900 | 1.2 | 333A-02/2 |
| TP3062(6) | 60 | AB | 12 | 7/960 | 1.2 | 398-01/1 |
| TP3065(1) | 65 | AB | 10 | 8/960 | 1.2 | 333A-02/2 |
| TP3069(1) | 100 | AB | 18 | 7.5/960 | 0.7 | 375A-01/1 |

Microwave Transistors

L-BAND PULSE POWER

These products are designed to operate in short pulse width, 10 μs, low duty cycle, 1%, power amplifiers operating in the 960 to 1215 MHz band. All devices have internal impedance matching. The prime application is avionics equipment for distance measuring (DME), area navigation (TACAN) and interrogation (IFF). All devices offered with hermetic option.

| Device | P _{out} Output Power Watts | P _{in} Input Power Watts | G _p (Min) Power Gain dB @ 1090 MHz | θ _{JC} °C/W | Package/Style |
|---|---|---|---|-------------------------|---------------|
| VCC = 18 Volts — Class A & AB Common Emitter | | | | | |
| MRF1000MA | 0.2 | 0.02 | 10 | 25 | 332-04/2 |
| MRF1000MB | 0.2 | 0.02 | 10 | 25 | 332A-03/2 |

(4) Internal Impedance Matched

(6) Internal Impedance Matched Push-Pull Transistors

★ New Product

□ = Motorola preferred devices

