

**806–960 MHz BAND (continued)**

Device	P <sub>out</sub> Output Power Watts	Class	P <sub>in</sub> Input Power Watts	G <sub>p</sub> (Min)/Freq. Power Gain dB/MHz	θ <sub>JC</sub> °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 <sub>out</sub> Output Power Watts	P <sub>in</sub> Input Power Watts	G <sub>p</sub> (Min) Power Gain dB @ 1090 MHz	θ <sub>JC</sub> °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