

RF SMALL-SIGNAL TRANSISTORS (continued)

Class C Amplifiers

The transistors listed in these tables are specified for operation in Class C RF power amplifier circuits. The tables are arranged by increasing frequency of operation first, then by increasing output power.

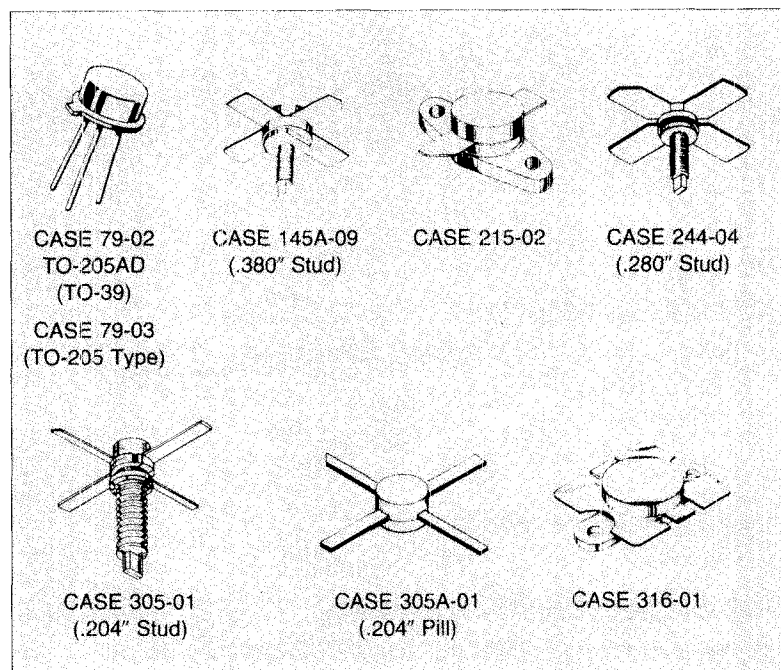
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Class C Amplifiers

Device Type	Frequency (MHz)	P _{in} (w)	P _{out} (w)	G _{pe} dB	Voltage (V)	Case Outline
MRF229	90	0.15	1.5	10.0	12.5	TO-39
MRF604	175	0.1	1.0	10.0	12.5	TO-46
2N4427	175	0.1	1.0	10.0	12.5	TO-39
MRF553	175	0.1	1.5	11.5	12.5	317D-01
MRF607	175	0.12	1.75	11.5	12.5	TO-39
2N6255	175	0.5	3.0	7.8	12.5	TO-39
2N3553	175	0.25	2.5	10.0	28.0	TO-39
MRF237*	175	0.25	4.0	12.0	12.5	TO-39
MRF207	220	0.15	1.0	8.2	12.5	TO-39
MRF227*	225	0.13	3.0	13.5	12.5	TO-39
MRF525*	400	0.001	0.02	13.0	26.0	TO-39
2N3866	400	0.1	1.0	10.0	28.0	TO-39
2N5160†	400	0.16	1.0	8.0	28.0	TO-39
MRF313	400	0.03	1.0	15.0	28.0	305A-1
2N3948	400	0.25	1.0	6.0	13.6	TO-39
MRF515	470	0.12	0.75	8.0	12.5	TO-39
MRF581	470	0.05	1.2	13.8	12.5	317-1
MRF629*	470	0.32	2.0	8.0	12.5	TO-39
MRF627	470	0.05	0.5	10.0	12.5	305A-1
MRF628	470	0.05	0.5	10.0	12.5	249-5
MRF630	470	0.25	3.0	10.8	12.5	TO-39
MRF559	870	0.063	0.5	9.0	12.5	317-1
MRF837	870	0.125	0.75	8.0	12.5	317-01
MRF581	870	0.12	1.0	9.2	12.5	317-1
MRF557	870	0.25	1.5	8.0	12.5	317D-01

*Grounded Emitter TO-39

†PNP



For UHF Applications

225–400 MHz, AM Transistors

Stringent requirements of the UHF Military band are met by MRF313, 321, 331, 325, 326, 327, 329 and 2N6439 types, with all-gold metal systems, ruggedness, and "CQ" programmed wirebond construction, to assure consistent input impedances.

Device	P _{out} Output Power Watts	P _{in} Input Power Watts	G _{pE} Power Gain dB Min	V _{CC} Supply Voltage Volts	Package
MRF525*	0.02	0.001	13	26	79-03
2N4428	25	.075	10	28	TO-205AD
2N5160†	1.0	0.16	8.0	28	TO-205AD
2N3866	1.0	0.1	10	28	TO-205AD
MRF313	1.0	0.03	15	28	305A-01
MRF5174	2.0	0.125	12	28	244-04
MRF321**	10	0.62	12	28	244-04
MRF323**	20	2.0	10	28	244-04
MRF5177	30	7.5	6.0	28	215-02
MRF325**	30	4.3	8.5	28	316-01
MRF326**	40	8.0	9.0	28	316-01
MRF309	50	10	7.0	28	316-01
2N6439	60	10	7.8	28	316-01
MRF390***	60	6.8	9.5#	28	744-02
MRF327**	80	14.9	7.3	28	316-01
MRF329**	100	20	7.0	28	333-03
MRF392***	125	11	9.7#	28	744A-01

*Grounded Emitter CASE 79-03 (TO-205 Type)

**Internal Impedance Matched

***Internal Impedance Matched Push-Pull Transistors

†PNP

#Typical