

RF SMALL-SIGNAL TRANSISTORS (continued)

UHF and Microwave Oscillators

The transistors listed below are for UHF and microwave oscillator applications as initial signal sources or as output stages of limited range transmitters. Devices are listed in order of increasing output power.

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Device Type	Test Conditions		P _{out} mW Min	f _T MHz Typ	Package
	f MHz	V _{CC} Volts			
2N5179	500	10	20	1800	TO-72
2N2857	500	10	30	1800	TO-72
2N3839	500	6.0	30	1800	TO-72
MM8009	1680	20	200	1400	TO-39
2N5108	1680	20	300	1400	TO-39
2N3866	400	15	1000	1000	TO-39

*Typical

Low-Noise Transistors

The low-noise devices listed are produced with carefully controlled r_b' and f_T to optimize device noise performance. Devices listed in the matrix are classified according to noise figure performance versus frequency.

NF dB	Frequency MHz						Polarity
	60	100	200	450	1000	2000	
1.5	2N5829 2N5031	2N5829 2N5031	MRF904	MRF571	MRF572/MRF2369		PNP NPN
2.0	2N4957	2N4957	2N5829 2N5031	MRF904	MRF901		PNP NPN
2.5	2N4958	2N4958	2N4957 2N5032	2N5829 2N5031	MRF901 2N6603	MRF572	PNP NPN NPN
3.0	2N4959 2N2857	2N4959 2N2857	2N4958	2N4957	2N5829 MRF901 2N6604	2N6603	PNP NPN NPN
3.5	2N4959 2N5179	2N4959 2N5179	2N4959 2N2857	2N4958 2N5032	2N4957 2N5031	MRF901	PNP NPN
4.0	2N4959 2N5179	2N4959 2N5179	2N4959 2N5179	2N4959 2N2857	2N4958 2N5031	2N6604	PNP NPN
4.5	2N4959 2N5179	2N4959 2N5179	2N4959 2N5179	2N4959 2N2857	2N4959 2N5032		PNP NPN