

Low-Noise

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	2N5829	MRF904				PNP NPN
	2N5031	2N5031					
2.0	2N4957	2N4957	2N5829	MRF904	MRF901		PNP NPN
	2N5032	2N5032	2N5031				
2.5	2N4958	2N4958	2N4957	2N5829	MRF901		PNP NPN
	2N5032	2N5032	2N5032	2N5031			
3.0	2N4959	2N4959	2N4958	2N4957	2N5829	MRF902	PNP NPN
	2N2857	2N2857	2N5032	2N5032	MRF901		
3.5	2N4959	2N4959	2N4959	2N4958	2N4957	MRF902	PNP NPN
	2N5179	2N5179	2N2857	2N5032	2N5031		
4.0	2N4959	2N4959	2N4959	2N4959	2N4958	MRF911	PNP NPN
	2N5179	2N5179	2N5179	2N2857	2N5031		
4.5	2N4959	2N4959	2N4959	2N4959	2N4959		PNP NPN
	2N5179	2N5179	2N5179	2N2857	2N5032		

General-Purpose Amplifier

The behaviour of f_T as a function of I_C is critical in most Class A amplifier applications. The devices listed in the matrix form below are classified according to f_T versus I_C .

f_T GHz Min.	COLLECTOR CURRENT mA							Polarity
	2.0	5.0	10	20	50	100	200	
5.0			BFR90	BFR91	BFR96			NPN
4.5			BFR90	MM4049 BFR91	BFR96	BFR96		PNP NPN
4.0			MM4049 BFR90	MM4049 BFR91				PNP NPN
3.5		MM4049 BFR90	MM4049 BFR90	MM4049 BFR91	BFR91			PNP NPN
2.5	MFR901	MRF901	2N5835	2N5835	2N5836			PNP NPN
2.0		2N5031	2N5841	2N5841	2N5836	2N5837	2N5837	PNP NPN
1.5	2N5031	2N4957 2N3960	2N6304	2N6304	2N5583 2N5943	2N5583 2N5109	2N5837	PNP NPN
1.2	2N4957	2N4959 2N2857	2N6305	2N6305	2N5583 2N5943	2N5583 2N5109	2N5583	PNP NPN
1.0	2N5179	2N5179	2N2857	2N5583 2N5943	2N5160 MM8001	2N5160 2N5108	2N5583	PNP NPN
0.8	MRF502	MRF502	MRF502	2N5160 2N3866	2N5160 2N3866	2N5160 2N4428	2N5583	PNP NPN
0.6	MRF501	MRF501	MRF501	2N3866	2N4073	MM4019 2N3553	MM4019 2N3553	PNP NPN
0.5				MRF532* MRF531**	MRF532* MRF531**			PNP NPN

* $BV_{CEO} = 80$ Vdc
** $BV_{CEO} = 100$ Vdc.