



RF Amplifiers and Oscillators

Type No.	Case Style	V _{CE} * V _{CE0} (V) Min	V _{BE0} (V) Min	I _{CBO} V _{CB} (nA) @ (V) Max	h _{FE} @ I _C & V _{CE} (mA) (V)		V _{CE(SAT)} (V) & Max	V _{BE(SAT)} (V) @ I _C Min Max		C _{ob} /C _{ro} (pF) Min Max	f _T (MHz) @ I _C Min Max		NF (dB) @ Max	Freq (MHz)	Process No.		
					Min	Max		Min	Max		Min	Max				Min	Max
2N2857	TO-72	30	2.5	10	15	30	150	3	1	1	1000	1900	5	4.5	450	40	
2N3478	TO-72	30	2	20	1	25	150	2	8	1	750	1600	5	4.5	200	40	
2N3600	TO-72	30	3	10	15	20	150	3	1	1	850	1500	5	4.5	200	40	
2N3932	TO-72	30	2.5	10	15	40	150	2	8	0.55	750	1600	2	4.5	200	40	
2N3933	TO-72	40	2.5	10	15	60	200	2	8	0.55	750	1600	2	4	200	40	
2N4259	TO-72	40	2.5	10	15	60	250	2	8	0.55	750	1600	2	5	450	40	
2N5179	TO-72	20	2.5	20	15	25	250	3	1	0.4	1.0	10	1	4.5	200	40	
2N5180	TO-72	30	2	500	8	20	200	2	8	1	650	1700	2			40	
MRF501	TO-72	25	3.5	50	1	30	250	1	6		600	5	5			40	
MRF502	TO-72	35	3.5	20	1	40	170	1	6		800	5	5			40	
PN5179	TO-92 (92)	20	2.5	2	15	25	250	3	1	0.4	1.0	10	1.0	4.5	200	40	
MPS6539	TO-92 (91)	20	3	50	15	20	4	10	10	0.7	500	4	4.5	100	42	42	
MPS6548	TO-92 (91)	30	3	100	25	25	4	10	10	0.7	650	4				42	
MPSH10	TO-92 (91)	30	3	100	25	60	4	10	10	0.35	650	4				42	
2N917	TO-72	30	3	1	15	20	3	1	1	3	500	4	6	60	43	43	
2N918	TO-72	30	3	10	15	20	3	1	1	3	600	4	6	60	43	43	
2N3563		Same as PN3563														43	
2N3564		Same as PN3564														43	
2N3662	TO-92 (94)	18	12	3	500	15	20	8	10	0.8	1.7	700	2100	5	6.5	60	43

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Type No.	Case Style	V _{CE} *		V _{BE}	I _{CEO}	I _{CB0}	V _{CE}	I _{FE} @ I _C & V _{CE}	V _{CE(SAT)} (V) & Max	V _{BE(SAT)} (V) @ I _C	C _{in} /C _{ro}		f _T		I _C (mA)	NF (dB) @ (MHz) Max	Process No.	
		Min	Max								Min	Max	Min	Max				Min
2N3663	TO-92 (94)	30	12	3	500	15	8	10				0.8	1.7	700	2100	5	6.5	43
2N3825	TO-92 (94)	30	15	4	100	15	2	10	0.25	2		3.5		200	800	2	5.5	43
2N4292	TO-92 (94)	30	15	3	500	15	3	1	0.6	10		3.5		600		4	6	43
2N4293	TO-92 (94)	30	15	3	500	15	3	1	0.6	10		3.5		600		4	6	43
2N5130		Same as PN5130																
2N5770	TO-92 (92)	30	15	4.5	10	15	50	200	0.4	1.0	10	0.7	1.1	900	1800	8	6	43
MPS918	TO-92 (92)	30	12	3	10	15	20	3	0.4	1.0	10	3		600		4	6	43
MPS3563		Same as PN3563																
MPS6507	TO-92 (92)	30*	20		5	15	25	2				2.5		700		10		43
MPS6511	TO-92 (92)	30*	20		50	15	25	10				2.5						43
MPS6541	TO-92 (92)	30*	20	4	50	15	25	4				1.7		600	1500	4		43
MPS5770	TO-92 (92)	30	15	4.5	10	15	50	200	0.4	1.0	10			800	1800	8		43
PN918	TO-92 (92)	30	15	3	10	15	20	3	0.4	1.0	10	1.7		600		4	6	43
PN3563	TO-92 (92)	30	15	2	50	15	20	200				1.7		600	1500	8		43
PN3564	TO-92 (92)	30	15	4	50	15	20	500	0.3	0.97	20	3.5		400	1200	15		43

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Type No.	Case Style	V _{CE} * V _{CB0} (V) Min	V _{CE0} (V) Min	V _{EB0} (V) Min	I _{CB0} (nA) Max	V _{CB} (V) Max	h _{FE} Min	I _C (mA) Max	V _{CE(SAT)} (V) Max	V _{BE(SAT)} (V) Max	I _C (mA) Max	C _{ob} /C _{po} (pF) Min	f _T (MHz) Min	I _C (mA) Max	NF (dB) Max	Freq (MHz) Max	Process No.
PN5130	TO-92 (92)	30	12	1	50	10	15	250	0.6	1.0	10	1.7	450	8			43
2N4134	TO-72	30	30	3	50	10	25	200				0.5	350	800	2.5	60	44
2N4135	TO-72	30	30	3	50	10	25	200				0.5	425	800	5	450	44
MPS6568A	TO-92	20	20	3	50	10	20	200	0.3	0.96	10	0.65	375	800	3.3	200	44
MPS6569	TO-92	20	20	3	50	10	20	200	3	0.96	10	0.25	300	800	6	45	44
MPS6570	TO-92	20	20	3	50	10	20	200	3	0.96	10	0.25	300	800	6	45	44
MPSH30	TO-92	20	20	3	50	10	20	200	0.3	0.96	10	0.65	300	800	6	45	44
MPSH31	TO-92	20	20	3	50	10	20	200	0.3	0.96	10	0.65	300	800	6	45	44
SE5020	TO-72	20	20	3	50	10	20	200	3.0	0.96	10	0.25	375	800	3.3	200	44
SE5021	TO-72	20	20	3	50	10	20	200	3.0	0.96	10	0.25	375	800	4	200	44
SE5022	TO-72	20	20	3	50	10	20	200	3.0	0.96	10	0.25	300	800			44
SE5023	TO-72	20	20	3	50	10	20	200	3.0	0.96	10	0.25	300	800	6	45	44
SE5024	TO-72	20	20	3	50	10	20	200	3.0	0.96	10	0.25	300	800	6	45	44*
SE5050	TO-72	20	20	3	50	10	20	200	3.0	0.96	10	0.25	300	4	4	100	44
SE5051	TO-72	20	20	3	50	10	20	200	3.0	0.96	10	0.25	300	4			44
SE5052	TO-72	20	20	3	50	10			3.0		10		375	4	4	200	44
MPS6542	TO-92 (96)	30*	20		50	15	25	2				1.5	700	10			47
MPS6543	TO-92 (96)	35	20	3	100	25	25	4	0.35	0.05	10	1	750	4			47
MPS6546	TO-92 (96)	35	25	3	100	25	20	2	0.35		10	0.45	600	2			47
MPS6547	TO-92 (96)	35	25	3	100	25	20	2	0.35		10	0.35	600	2			47
MPSH11	TO-92 (96)	30	25	3	100	25	60	4	0.5		4	0.6	650	4			47

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		Min	Max		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max			
MPSH19	TO-92 (96)	30		25	3	100	15	45	4	10					0.65	300	4			47	
MPSH24	TO-92 (96)	40		30	4	50	15	30	8	10				0.36	400	8			47		
MPSH34	TO-92 (96)	45		45	4	50	30	15	20	2	0.5			0.32	500	15			47		
TIS86	TO-92 (96)	30		30		100	15	40	200	4	0.5			0.45	500	4	5	200	47		
TIS87	TO-92 (96)	45		45		100	15	30	150	12	0.5			0.45	500	12			47		
MPS6540	TO-92 (96)	30		30	4	100	25	25	2	10	0.5			0.65	350	2			49		
MPS6544	TO-92 (96)	60		45	4	500	35	20	30	10	0.5			0.65					49		
MPS6567	TO-92 (96)			40	5	500	35	25	10	5	0.5			0.7					49		
MPSH20	TO-92 (96)	40		30	4	50	15	25	4	10	0.95			0.65	400	4			49		
MPSH37	TO-92 (96)			40	5	500	35	25	5	10	0.5			0.7	300	5			49		

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