



B

Low Noise Bipolar Transistors



Fig.	Package	Test f (GHz)	NF Typ. (dB)	GA Typ. (dB)	VCE (V)	S21E2 IC (mA)	Typ. (dB)	fT Typ. (GHz)	HFE Typ.	IC Max. (mA)	Digi-Key Part No.	1	Pricing 10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	
1	SMT	1.0	1.4	12.5	3	7	9	4.5	120	100	NE85619-ACT-ND*†	.44	3.63	16.94	NE85619-ATR-ND◆	217.80/M	
		1.0	1.4	14	8	20	14	7.0	120	65	NE68119-ACT-ND*†	.61	5.08	23.72	NE68119-ATR-ND◆	304.92/M	
		2.0	1.3	7.5	1	10	7.5	9.0	100	30	NE68719CT-ND†	.54	4.54	21.18	—	—	
		2.0	1.5	7.5	3	10	9	12.0	110	30	NE68519-ACT-ND*†	.39	3.27	15.25	NE68519-ATR-ND◆	196.02/M	
		2.0	1.5	8	3	20	8	9.5	120	100	NE68819-ACT-ND*†	.28	2.36	11.01	NE68819-ATR-ND◆	141.57/M	
		2.0	1.9	9.5	6	10	9	10.0	120	35	NE68019-ACT-ND*†	.52	4.36	20.33	NE68019-ATR-ND◆	261.36/M	
	SOT-23	1.0	1.2	13	8	20	11	9.0	100	65	NE68133-A-ND◆	.78	6.53	30.49	—	—	
		1.0	1.4	9	10	20	11.5	7.0	120	100	NE85633B-ACT-ND*†	.52	4.36	20.33	NE85633B-ATR-ND◆	261.36/M	
		2.0	1.5	7.5	3	3	6.5	8.5	120	100	NE68833-A-ND◆	.78	6.53	30.49	—	—	
		2.0	1.7	9	6	10	8	10.0	100	35	NE68033-A-ND◆	.87	7.26	33.88	—	—	
		1.0	1.3	12	10	20	12	4.5	110	100	NE85630-ACT-ND*†	.52	4.36	20.33	NE85630-ATR-ND◆	261.36/M	
		2.0	1.3	7.5	1	10	7.5	9.0	100	30	NE68730CT-ND†	.76	6.35	29.64	—	—	
SOT-323	2.0	1.5	7	3	10	8.5	12.0	110	30	NE68530CT-ND†	.60	4.99	23.29	—	—		
	2.0	1.5	7	3	10	8.5	12.0	110	30	NE68530-ACT-ND*†	.61	5.08	23.72	—	—		
	1.0	1.5	13.5	8	20	13	7.0	120	65	NE68130-ACT-ND*†	.61	5.08	23.72	NE68130-ATR-ND◆	304.92/M		
	2.0	1.7	9.5	6	10	8.5	10.0	100	35	NE68030CT-ND†	.62	5.19	24.23	—	—		
	2.0	1.7	9.5	6	10	8.5	10.0	100	35	NE68030-ACT-ND*†	.72	5.99	27.95	NE68030-ATR-ND◆	359.37/M		
	3.0	1.4	—	1	20	13	20.0	80	35	NE894M13-A-ND◆	.68	5.63	26.26	—	—		
2A	SOT-143	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139-ACT-ND*†	.65	5.45	25.41	NE68139-ATR-ND◆	326.70/M	
2B	SOT-143R	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139RCT-ND*†	.54	4.54	21.18	NE68139RTR-ND*	302.75/M	
		2.0	1.7	11	6	10	9	10.0	100	35	NE68039RCT-ND*†	.68	5.63	26.26	NE68039RTR-ND*	375.35/M	
		2.0	1.7	11	6	10	9	10.0	100	35	NE68039R-ACT-ND*†	.65	5.45	25.41	NE68039R-ATR-ND◆	326.70/M	
2A	SOT-343	2.0	0.9	18	3	10	23	25.0	190	35	NESG2021M05-A-ND◆	.89	7.44	34.72	—	—	
		2.0	1.1	16	2	20	20	25.0	70	35	NE662M04-A-ND◆	.63	5.26	24.56	—	—	
		5.2	0.95	10	2	6	14	—	300	35	NESG3031M05-A-ND◆	1.00	8.35	38.96	—	—	
3	SOT-363	2.0	1.6	9	3	10	14	14.0	120	30	NE696M01CT-ND†	.60	4.99	23.29	NE696M01TR-ND	339.05/M	
		2.0	1.6	9	3	10	14	14.0	120	30	NE696M01-ACT-ND*†	.61	5.08	23.72	NE696M01-ATR-ND◆	304.92/M	
Evaluation Board for NE662M04-A-ND, 900MHz.....												NE662M04-EVGA09-ND	87.12	—	—	—	—
PNP — RoHS Compliant																	
1	SOT-23	1.0	1.5	10	-8	-20	12	8.5	40	-50	NE97733-A-ND	3.51	31.53	148.87	—	—	
		1.0	2.0	7	-10	-15	10	5.5	40	-50	NE97833-A-ND	1.78	16.01	75.60	—	—	
Dual Package																	
3	SOT-363	1.0	1.2	—	3	7	9	4.5	120	100	UPA810TCT-ND†	.74	6.19	28.88	—	—	
		1.0	1.2	—	3	7	9	4.5	120	100	UPA810T-ACT-ND*†	.76	6.35	29.64	UPA810T-ATR-ND◆	381.15/M	
		2.0	1.5	—	3	7	5	9.0	120	100	UPA814TCT-ND†	.85	7.08	33.03	UPA814TTR-ND	492.23/M	
		2.0	1.9	—	3	5	7.5	8.0	120	35	UPA800T-ACT-ND*†	.89	7.44	34.72	UPA800T-ATR-ND◆	446.49/M	
		6-Mini (Q1)	2.0	1.5	9.5	3	10	8.5	12.0	110	30	UPA862TD-A-ND◆	1.07	8.89	41.51	—	—

* Reverse Pinout ◆ RoHS Compliant † Cut Tape

Medium Power Bipolar Transistors



Fig.	Package	Test f (GHz)	VCE (V)	IC (mA)	P1dB (dBm)	P1dB Typ. (dBm)	fT Typ. (GHz)	HFE Typ.	IC Max. (mA)	Digi-Key Part No.	1	Pricing 10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000		
2A	SOT-343	1.8	3.6	200	15	26	20	60	500	NE664M04-A-ND◆	1.15	10.29	48.60	—	—		
		1.8	2.8	23	1	15	15	120	50	NE677M04-A-ND◆	.59	4.90	22.87	—	—		
		1.8	2.8	40	7	18	12	120	100	NE678M04-A-ND◆	.61	5.08	23.72	—	—		
		2.0	3.6	10	7	21	—	190	100	NESG2101M05-A-ND◆	1.07	8.89	41.51	—	—		
4	SOT-89	0.46	6.0	30	15	30	10	120	600	NESG260234-AZ-ND◆	1.15	9.62	44.89	—	—		
		1.0	12.5	100	19	27.5	5.5	120	250	NE461M02-AZ-ND◆	1.76	14.70	68.61	—	—		
		1.0	12.5	100	20.5	27.5	5.5	100	250	NE46134-AZCT-ND*†	1.15	9.62	44.89	NE46134-AZTR-ND◆	577.17		
		1.0	10	40	13	22	6.5	120	100	NE85634-ACT-ND*†	.63	5.26	24.56	NE85634-ATR-ND◆	315.81		
		0.9	6.0	30	20	31.5	15	120	750	NESG270034-T1-AZCT-ND*†	.89	7.44	34.72	NESG270034-T1-AZTR-ND◆	386.96		
Evaluation Board for NESG270034-T1-AZ, 900MHz.....												NESG270034-EV09-AZ-ND	108.90	—	—	—	—

◆ RoHS Compliant † Cut Tape

Bipolar Oscillator Transistors



Fig.	Package	Posc f (GHz)	VCE (V)	IC (mA)	Typ. (W)	fT Typ. (GHz)	HFE Typ.	IC Max. (mA)	Digi-Key Part No.	1	Pricing 10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000
1	SOT-23	2.5	2.5	0.4	0.001	2	100	50	NE94433B-ACT-ND	.24	2.00	9.31	NE94433B-ATR-ND	119.79/M

General Purpose GaAs FETs



Fig.	Package	Gate Length (um)	Gate Width (um)	Frequency Range (GHz)	Test f (GHz)	NF/GA Bias VDS (V)	IDS (mA)	NF (dB)	GA (dB)	P1dB (dBm)	Digi-Key Part No.	1	Pricing 10	50
2C	Super Mini-Mold	0.6	500	0.1 - 6	2.0	2	10	0.45	14	15	NE3508M04-A-ND	1.22	10.16	47.43
		0.6	400	0.1 - 6	2.0	2	10	0.4	17.5	11	NE3509M04-A-ND	1.22	10.16	47.43
		0.6	280	0.1 - 6	4	2	15	0.45	16	11	NE3510M04-A-ND	1.26	10.53	49.13
5	S02	0.2	160	4 - 18	12	2	10	0.3	13.5	—	NE3512S02-A-ND	1.50	12.52	58.44
		0.2	160	4 - 18	12	2	10	0.35	13.5	—	NE3514S02-A-ND	1.79	14.88	69.46

(Continued)

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