



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				P1dB	fT	IC	Digi-Key	1	Pricing	50	Digi-Key	Tape & Reel	
		f (GHz)	VCE (V)	IC (mA)	P1dB (dBm)	Typ. (dBm)	Typ. (GHz)	Max. (mA)	Part No.			Part No.	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				fT	HFE	IC	Digi-Key	1	Pricing	50	Digi-Key	Tape & Reel
		f (GHz)	VCE (V)	IC (mA)	Typ. (W)	Typ. (GHz)	Typ.	Max. (mA)	Part No.			Part No.	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		NF (dB)	GA (dB)	P1dB (dBm)	Digi-Key	1	Pricing	50
						VDS (V)	IDS (mA)				Part No.			
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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SPDT Dual Control Switches

Fig.	Package	Control Voltages (V)	Insertion Loss (dB)	Isolation @ 2GHz (dB)	Digi-Key Part No.	1	Pricing 10	50
3	6-Super Mini-Mold	2.6/0	0.40 @ 2GHz	19	UPG2155TB-A-ND	1.22	10.16	47.43
6	6-TSON	2.7/0	0.45	19	UPG2158T5K-A-ND	.94	7.80	36.42

Switches



B

Fig.	Package	Control Voltages (V)	Insertion Loss (dB)	Isolation @ 2GHz (dB)	Input Power @ 0.1dB (dBm)	Input Power @ 1dB (dBm)	Digi-Key Part No.	1	Pricing 10	50	Digi-Key Part No.	Tape & Reel Pricing 5,000
SPDT Single Control Switches — RoHS Compliant												
3	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	28	33	33	UPG2010TB-A-ND	1.74	14.52	67.76	—	—
	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	28	20.5	24	UPG2012TB-A-ND	.89	7.44	34.72	—	—
	6 Mini-Mold	2.8/0	0.3 @ 2GHz	30	20.5	24	UPG2012TK-A-ND	.96	7.99	37.27	—	—
	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	27	27	30	UPG2015TB-A-ND	1.09	9.08	42.35	—	—
	6 Mini-Mold	2.8/0	0.8 @ 2GHz	25	17	21	UPD5713TK-E2-ACT-ND†	.36	3.00	13.98	UPD5713TK-E2-ATR-ND	180.05/M
Evaluation Board for UPD5713TK-E2-ATR-ND							UPD5713TK-EVAL-A-ND	87.12	—	—	—	—
SPDT Dual Control Switches — RoHS Compliant												
3	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	28	34	36	UPG2009TB-A-ND	1.50	12.52	58.44	—	—
	6-Super Mini-Mold	3.0/0	0.3 @ 2GHz	27	29	32	UPG2179TB-A-ND	.96	7.99	37.27	—	—
	6-Super Mini-Mold	3.0/0	0.3 @ 2GHz	27	27	20 (1.8V), 27 (3V)	UPG2214TB-A-ND	.68	5.63	26.26	—	—
	6 Mini-Mold	3.0/0	0.3 @ 2GHz	27	27	20 (1.8V), 27 (3V)	UPG2214TK-A-ND	.85	7.08	33.03	—	—
Evaluation Board for UPG2214TK-A-ND							UPG2214TK-EVAL-A-ND	123.42	—	—	—	—
Multi-Throw Switches — RoHS Compliant												
7	10-TSON	2.8/0	0.55 @ 2GHz	21	33	34	UPG2031TQ-A-ND	2.16	19.44	91.80	—	—
Broadband Switches to 6GHz												
3	6-Super Mini-Mold	2.8/0	0.9 @ 5.8GHz	18 @ 5.85GHz	31	33	UPG2022TB-A-ND◆	1.63	13.61	63.53	—	—
	6-TSON	3.0/0	0.4 @ 2.5GHz, 0.5 @ 6GHz	35 @ 2.5GHz, 0.5 @ 6GHz	—	35 @ 2.5GHz, 29 @ 6GHz	UPG2163T5N-A-ND◆	.98	8.17	38.12	—	—
—	12-QFN	3.0/0	0.6 @ 3.5GHz	25 @ 3.5GHz	—	>37	UPG2157T5F-A-ND◆	1.52	12.71	59.29	—	—
Evaluation Board for UPG2157T5F-A-ND							UPG2157T5F-EVAL-A-ND◆	145.20	—	—	—	—
Evaluation Board for UPG2163T5N-A-ND							UPG2163T5N-EVAL-ND	87.12	—	—	—	—

◆ RoHS Compliant † Cut Tape

Frequency Down Converters



Fig.	Package	RF Input Frequency Range Typical (MHz)	IF Output Frequency Range Typical (MHz)	Vcc (V)	Icc (mA)	Conversion Gain (dB)	Digi-Key Part No.	1	Pricing 10	50
3	SOT-363	100 - 2000	0 - 300	3	6.0	14.0	UPC2756TB-A-ND	2.03	18.30	86.39
			20 - 300	3	5.6	13.0	UPC2757TB-A-ND	1.60	14.37	67.88
			20 - 300	3	11.0	17.0	UPC2758TB-A-ND	1.60	14.37	67.88

Frequency Up Converters



Fig.	Package	IF Input Frequency Range Typical (MHz)	RF Output Frequency Range Typical (MHz)	Vcc (V)	Icc (mA)	Conversion Gain (dB)	Digi-Key Part No.	1	Pricing 10	50
3	6-Super Mini-Mold	50 - 400	800 - 2500	3.0	9.0	8.5	UPC8172TB-A-ND	1.61	13.43	62.68
				2.8	15.0	11.0	UPC8187TB-A-ND	2.00	17.97	84.85

Silicon MMIC Prescalers



Fig.	Package	f _{in} (GHz)		Pin (dBm)		Vcc (V)	Icc Typ. (mA)	Divide Ratio	Digi-Key Part No.	1	Cut Tape Pricing		Digi-Key Part No.	Tape & Reel Pricing 1,000
		Min.	Max.	Min.	Max.						10	50		
8	8-SSOP	0.5	1	-20	-5	3	5	2/4/8	UPB1509GV-ACT-ND	1.91	17.16	80.99	UPB1509GV-ATR-ND	990.99
		0.5	3	-10	+6	5	10	2	UPB1508GV-ACT-ND	1.91	17.16	80.99	UPB1508GV-ATR-ND	990.99
		0.5	3	-10	+6	5	15	4	UPB1510GV-ACT-ND	1.63	14.70	69.43	UPB1510GV-ATR-ND	849.42
		0.5	3	-15	+6	5	19	64/128/256	UPB1507GV-ACT-ND	1.63	14.70	69.43	UPB1507GV-ATR-ND	849.42

Silicon LD Mosfets



Fig.	Pout Typical (dBm)	Linear Gain Typical (dB)	Test Frequency (GHz)	Pin (dBm)	VDS (V)	ID Typical (A)	Digi-Key Part No.	1	Pricing 10	50
5	32.0	10	1.8	25	3.2	0.8	NE5520279A-A-ND	6.48	58.32	275.38
	35.5	16	0.915	25	3.2	1.0	NE5520379A-A-ND	6.19	55.71	263.04
	40.0	15	0.9	27	7.5	2.75	NE5511279A-A-ND	10.19	91.64	432.74

(Continued)

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GaAs Drivers

Fig.	Frequency Range (GHz)	Pout Typical (dBm)	Pin (dBm)	Linear Gain (dB)	Power Added Eff. (%)	Test Frequency (GHz)	VDS (V)	IDS (mA)	Digi-Key Part No.	1	Pricing 10	50
5	0.8 - 3.7	29.5	15	12	58	1.9	3.5	350	NE651R479A-A-ND	6.74	60.61	286.18
	0.8 - 3.7	32.5	25	10	58	1.9	3.5	1200	NE6510179A-A-ND	8.24	74.16	350.21

Amplifiers



Fig.	Package	f Typ. @ 3dB Down (MHz)	Vcc (V)	Icc Typ. (mA)	NF Typ. (dB)	Gain Typ. (dB)	RLin Typ. (dB)	RLout Typ. (dB)	P1dB Typ. (dBm)	ISOL Typ. (dB)	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape and Reel		
												1	10	50		Qty.	Pricing	
3	SOT-363	1000	5	22.0	3.5	33	6	12	7.5	39	UPC2710TB-A-ND	89	7.44	34.72	—	—	—	
		1500	3	6.0	2.8	19	11.5	8.5	-8.5	40	UPC2748TB-A-ND	1.02	8.53	39.81	—	—	—	
		1500	3	7.5	4.0	19	13	8.5	-3.7	45	UPC2746TB-ACT-ND	89	7.44	34.72	UPC2746TB-ATR-ND	3,000	446.49/M	—
		2300	5	25.0	5.0	23	10	10	8.7	31	UPC2709TB-A-ND	89	7.44	34.72	—	—	—	
		2400	3	27	5.5	20	12	9	6.5	29	UPC2763TB-ACT-ND	85	7.08	33.03	UPC2763TB-ATR-ND	3,000	424.71/M	—
		2400	3	36	6.0	21	14	10	11.5	30	UPC2771TB-ACT-ND	85	7.08	33.03	UPC2771TB-ATR-ND	3,000	424.71/M	—
		2600	5	12	4.5	20	12	13	-0.4	33	UPC2712TB-ACT-ND	76	6.35	29.64	UPC2712TB-ATR-ND	3,000	381.15/M	—
		2700	3	7.5	6.0	12	11	5.5	-3.0	33	UPC2745TB-ACT-ND	70	5.81	27.10	UPC2745TB-ATR-ND	3,000	348.48/M	—
		2700	5	25	6.0	23	7.5	20	6	32	UPC2776TBCT-ND	74	6.19	28.88	UPC2776TBTR-ND	3,000	423.26/M	—
		2700	5	25	6.0	23	7.5	20	6	32	UPC2776TB-ACT-ND	76	6.35	29.64	UPC2776TB-ATR-ND	3,000	381.15/M	—
	6-Super Mini-Mold	2900	3	6.0	4.0	16	10	12.5	-12.5	30	UPC2749TB-A-ND	96	7.99	37.27	—	—	—	
		2900	3	27	6.5	14.5	8.5	12	7	25	UPC2762TB-ACT-ND	85	7.08	33.03	UPC2762TB-ATR-ND	3,000	424.71/M	—
		2900	5	12	5.0	13	25	12	-2.6	30	UPC2711TB-ACT-ND	76	6.35	29.64	UPC2711TB-ATR-ND	3,000	381.15/M	—
		2900	5	26.0	6.5	15	11	20	7.5	23	UPC2708TB-A-ND	89	7.44	34.72	—	—	—	
		2800	5	24.5	3.7	32.5	8.5	10.5	9.0	41	UPC3225TB-A-ND	1.59	13.25	61.83	—	—	—	
		2900	5	14.0	2.3	20.5	15	9.5	-1.5	44	UPC3215TB-A-ND	1.44	11.98	55.90	—	—	—	
		3200	5	9.0	4.3	21.5	12	17	-3.5	40	UPC3224TB-A-ND	72	5.99	27.95	—	—	—	
		3200	5	15.5	5.3	25	14	13	7.5	34	UPC3226TB-A-ND	81	6.72	31.34	—	—	—	
		3200	5	26.0	4.0	32.8	9.5/13	10/14.5	11	41	UPC3232TB-E3-ACT-ND	68	5.63	26.26	UPC3232TB-E3-ATR-ND	3,000	337.59/M	—
		4000	3	23.0	4.5	21	10.5	10	7.0	32	UPC8181TB-A-ND	1.13	9.44	44.05	—	—	—	
6 Mini-Mold	1000	2.8	5	1.4	15.3	9.5	14	-5.5	22	UPC3237TK-A-ND	98	8.17	38.12	—	—	—		
7	8-SSOP	1900	5	49	6.0	23	14	4	15.9	35	UPC1678GV-ACT-ND	1.81	15.06	70.30	UPC1678GV-ATR-ND	1,000	783.35	—
Evaluation Board for UPC3224TB-A-ND											UPC3224TB-EVAL-ND	87.12	—	—	—	—	—	
Evaluation Board for UPC8181TB-A-ND											UPC8181TB-EVAL-ND	87.12	—	—	—	—	—	

* Reverse Pinout ♦ RoHS Compliant † Cut Tape

AGC Amplifier



Fig.	Package	Typical Frequency Range @ 3dB Down (MHz)	Vcc (V)	Icc Typical (mA)	NF (dB)	Gain Typical (dB)	AGC (dB)	Digi-Key Part No.	1	Pricing 10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000
3	6 Mini-Mold	2500	3	11.5	7.5	14	40	UPC8204TK-A-ND	2.20	19.77	93.33	—	—
8	8-SSOP	90	5	36	5.0	65	61	UPC3231GV-E1-ACT-ND	1.60	14.37	67.88	UPC3231GV-E1-ATR-ND	830.54
Evaluation Board for UPC8204TK-A-ND, 1.9GHz									UPC8204TK-EV19-ND	87.12	—	—	—

♦ RoHS Compliant † Cut Tape

GaAs Power Amplifiers



Fig.	Package	Overall Frequency Range (MHz)	Test Conditions	Output Power (dBm)	Power Added Efficiency (%)	Digi-Key Part No.	1	Pricing 10	50	Digi-Key Part No.	T&R Pricing 3,000
—	10-TSON	2400 - 2500	F=2.45GHz, VCC=3.3V	23.0	50	UPG2301TQ-A-ND	2.76	24.83	117.25	—	—
—	20-QFN	800 - 2500	F=1.8GHz, VD=3V	31.5	42	UPG2118K-A-ND	6.92	62.24	293.89	—	—
—	6-TSON	2400 - 2500	F=2.45GHz, VCC=3V	25	58	UPG2250T5N-E2-ACT-ND	2.09	18.79	88.71	UPG2250T5N-E2-ATR-ND	1085.37/M
9	6-TSON	2400 - 2500	F=2.45GHz, VCC=3V	20.0	45	UPG2314T5N-E2-ACT-ND	2.09	18.79	88.71	UPG2314T5N-E2-ATR-ND	1085.37/M

† Cut Tape

ZigBee™ Modules



Matrix Modules offer a miniature, fully integrated transmission solution based on the Texas Instruments™ CC2430 transceiver IC. They feature Dynamic Power Configuration (DPC), which allows you to drive the module at 10mW when enhanced range is required, or bypass the power amplifier for 1mW output for low power operation. Changing the power output is easily implemented in software.

Contents:

- 2 RF Modules • 2 Interface Modules • 2 RS-232 Cables • Batteries • Software

Description	Digi-Key Part No.	Price Each
Evaluation Kit for Matrix Module	ZMXM-400-KIT-2-ND	326.70

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

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