



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

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

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