

Wideband Amplifiers

Part Number	Typical Output Power @ 2 dB Gain (dBm)	ELECTRICAL CHARACTERISTICS (f = 100 MHz, unless specified, TA = 25°C)											Pkg. Code	Package Description	Pin or Component Reference	
		Vcc (V)	Icc (mA)			NF (dB)	Gain (dB)			RLin (dB)	RLout (dB)	P1dB (dBm)				ISOL (dB)
			MIN	TYP	MAX		TYP	MIN	TYP							
UPC1675G	1900	5	12	17	22	5.5	10	12	14	12	11	+0.7	25	39	SOT-143	522
UPC1676G	1200	5	14	19	24	4.5	19	22	24	12	9	+2.7	28	39	SOT-143	523
UPC1678G	1900	5	40	49	60	6.0	21	23	25	14	4	+15.9	35	G08	8 pin SOP	525
NEW UPC1678GV	1900	5	40	49	60	6.0	21	23	25	14	4	+15.9	35	S08	8 pin SSOP	525
UPC1688G	1100	5	14	19	24	4.0	18	21	23	13	13	+0.1	27	39	SOT-143	529
UPC2708T ²	2900	5	20	26	33	6.5	13	15	18.5	11	20	+9.2	23	T06	SOT-26	530
UPC2709T ²	2300	5	19	25	32	5.0	21	23	26.5	10	10	+8.7	31	T06	SOT-26	531
UPC2710T	1000	5	16	22	29	3.5	30	33	36.5	6	12	+10.8	39	T06	SOT-26	532
UPC2711T ²	2900	5	9	12	15	5.0	11	13	16.5	25	12	-2.6	30	T06	SOT-26	530
NEW UPC2711TB ²	2900	5	9	12	15	5.0	11	13	16.5	25	12	-2.6	30	S06	SOT-363	573
UPC2712T ²	2600	5	9	12	15	4.5	18	20	23.5	12	13	-0.4	33	T06	SOT-26	531
NEW UPC2712TB ²	2600	5	9	12	15	4.5	18	20	23.5	12	13	-0.4	33	S06	SOT-363	573
UPC2713T	1200	5	9	12	15	3.2	26	29	33	13	9	+0.3	40	T06	SOT-26	532
UPC2714T	1800	3.4	3.3	4.5	5.7	5.0	8.5	11.5	15.5	13	8	-8.4	27	T06	SOT-26	533
UPC2715T	1200	3.4	3.3	4.5	5.7	4.5	16	19.0	23	17	8	-8.3	33	T06	SOT-26	533
UPC2726T ³	1400	5	8	11.5	15	4.5	11	15	17	2	4	-	55	T06	SOT-26	536
UPC2745T	2700	3	5	7.5	10	6.0	9	12	14	11	5.5	-3.0	38	T06	SOT-26	540
NEW UPC2745TB	2700	3	5	7.5	10	6.0	9	12	14	11	5.5	-3.0	38	S06	SOT-363	574
UPC2746T	1500	3	5	7.5	10	4.0	16	19	21	13	8.5	-3.7	45	T06	SOT-26	541
NEW UPC2746TB	1500	3	5	7.5	10	4.0	16	19	21	13	8.5	-3.7	45	S06	SOT-363	574
UPC2747T ⁴	1800	3	3.8	5	7	3.3	9	12	14	14	10	-10.9	40	T06	SOT-26	542
UPC2748T ⁴	1500	3	4.5	6	8	2.8	16	19	21	11.5	8.5	-8.5	40	T06	SOT-26	543
UPC2749T ⁵	2900	3	4	6	8	4	13	16	18.5	10	13	-12.5	30	T06	SOT-26	544
UPC2762T ⁵	2900	3	-	27	35	6.5	11.5	14.5	17.5	8.5	12	+7	25	T06	SOT-26	548
UPC2763T ⁵	2400	3	-	27	35	5.5	16.5	20	22.5	12	9	+6.5	29	T06	SOT-26	548
UPC2771T ⁴	2400	3	-	36	45	6	19	21	24	14	10	+11.5	30	T06	SOT-26	551
UPC2776T ⁶	2700	5	18	25	33	6.0	21	23	26	7.5	20	+6	32	T06	SOT-26	565
UPC8102T ⁷	330	1	0.3	0.5	0.65	2.9	-	14	-	-	-	-	-	T06	SOT-26	554

Notes:

1. Zo = 50 Ω for all Electrical Characteristics.
2. f = 1000 MHz test condition.
3. Differential Amplifier, f = 400 MHz test condition.
4. f = 900 MHz test condition.
5. f = 1900 MHz test condition.
6. f = 1000 MHz test condition.
7. f = 280 MHz test condition, optimize for NF. Requires input and output matching.