

# Power Amplifiers – Broadband, 0.2 to 100 Watts (continued)

resulted in the introduction of more than 90 new power amplifiers!

These GaAs FET power amplifier series are available in narrow band (APN, ASN), wide band (APW, ASW), Octave (APO, ASO), and multioctave band (APM, ASM). Covering from 0.5 to 15 GHz. The AP series are designed to operate as linear amplifiers, to maximize third order intercept point. The AS series operate in the saturated mode to attain the maximum output power. The CW output power ranges from 3W to 100W. Special pulsed amplifiers can be ordered with even higher output power. CTT's unique MIC modules are designed to obtain higher output power, better VSWR and wider bandwidth. These MIC thin film modules

are eutectically attached to metal carriers and mechanically mounted to the aluminum housings. Many units now use the state-of-the-art internally matched power FETs for the final stages.

All units have built in regulator and/or sequential bias circuit for protection. The specifications shown below are guaranteed at +25°C case temperature.

These units are ideally suitable for commercial, industrial, and military applications which need low maintenance, good performance, high reliability and quick delivery. They are most suitable for TWT replacement, IPA, driver amplifier, transmitter, radar, EW, RPV, point-to-point and up link communications.

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Model Number	Frequency Response (GHz)	Gain (dB)	Gain Flatness (±dB)	Noise Figure (dB)	P1dB (+dBm)	VSWR In/Out	Volts (DC)	DC Current (mA)	Case
	Min	Min	Max	Max	Min	Max	Typ	Typ	
APM/022-2724	0.8-2.2	24	1.25	5.0	27	2:1	15	520	HC2
APM/022-2733	0.8-2.2	33	1.50	5.0	27	2:1	15	580	HC2
APM/022-2746	0.8-2.2	46	1.75	5.0	27	2:1	15	680	HC4
APM/022-3027	0.8-2.2	27	1.25	6.0	30	2:1	15	720	HS4
APM/022-3036	0.8-2.2	36	1.50	5.0	30	2:1	15	800	HS4
APM/022-3045	0.8-2.2	45	1.75	5.0	30	2:1	15	900	HS4
APM/022-3326	0.8-2.2	26	1.25	8.0	33	2:1	15	1200	HPS6
APM/022-3335	0.8-2.2	35	1.50	5.0	33	2:1	15	1250	HPS6
APM/022-3344	0.8-2.2	44	1.50	5.0	33	2:1	15	1300	HPS6
APO/040-2724	2.0-4.0	24	1.00	5.5	27	2:1	15	450	HS4
APO/040-2738	2.0-4.0	38	1.00	4.0	27	2:1	15	520	HS4
APO/040-3033	2.0-4.0	33	1.25	4.0	30	2:1	15	870	HS6
APO/040-3045	2.0-4.0	45	1.50	4.0	30	2:1	15	950	HS6
APO/040-3330	2.0-4.0	30	1.25	5.5	33	2:1	15	1350	HPS6
APO/040-3345	2.0-4.0	45	1.50	4.0	33	2:1	15	1450	HPS6
APO/040-3525	2.0-4.0	25	1.50	8.0	35	2:1	15	2400	HPS8
APO/040-3540	2.0-4.0	40	1.50	4.0	35	2:1	15	2500	HPS8
APO/040-3730	2.0-4.0	30	1.50	8.0	37	2:1	15	4150	HPS10
APO/040-3737	2.0-4.0	37	1.50	5.5	37	2:1	15	4200	HPS10
APO/040-4032	2.0-4.0	32	1.75	8.0	40	2:1	15	8600	HDS14
APO/040-4047	2.0-4.0	47	2.00	4.0	40	2:1	15	8700	HDS14
APM/060-2720	2.0-6.0	20	1.00	5.5	27	2:1	15	450	HS4
APM/060-2730	2.0-6.0	30	1.25	4.5	27	2:1	15	500	HS4
APM/060-2736	2.0-6.0	36	1.50	4.5	27	2:1	15	580	HS6
APM/060-3027	2.0-6.0	27	1.25	4.5	30	2:1	15	900	HS6
APM/060-3032	2.0-6.0	32	1.50	4.5	30	2:1	15	1000	HS6
APM/060-3040	2.0-6.0	40	1.75	4.5	30	2:1	15	1050	HS6
APM/060-3335	2.0-6.0	35	1.50	4.5	33	2:1	15	1900	HPS6
APM/060-3342	2.0-6.0	42	1.50	4.5	33	2:1	15	2000	HPS6
APM/060-3636	2.0-6.0	36	1.75	6.0	36	2:1	15	3000	HPS10
APM/060-3646	2.0-6.0	46	2.00	4.5	36	2:1	15	3100	HPS10
APM/060-3932	2.0-6.0	32	1.75	6.0	39	2:1	15	5300	HDS12
APM/060-3944	2.0-6.0	44	2.00	4.5	39	2:1	15	5350	HDS12
APM/060-4148	2.0-6.0	48	2.00	4.5	41	2:1	15	10100	SP

New Products

\* = Saturated power.