

Power Amplifiers – Broadband 0.2 to 100 Watts

- ✓ **Solid-State Power Amplifiers from 0.2 to 100 Watts**
- ✓ **Frequency Coverage from 0.5 GHz to 40 GHz**
- ✓ **MIC Thin-Film Design for High Reliability**
- ✓ **Custom Engineered Options (CEOs)**



Power Amplifiers are CTT's forte. Over the past 20 years, the preponderance of our research and development has been devoted to this market segment. As a result, numerous proprietary, unique approaches to microwave power amplification have been incorporated in, both our narrow-band, and broad-band power amplifiers. For example, development in low-loss broad-band output stage power combiners allow CTT to deliver **6–18 GHz, 10 Watt amplifiers in volume – an industry first!**

In narrow band applications, CTT's ability to deliver 40 Watts at X-band and 100 Watts at C-band has allowed system designers to eliminate intermediate amplification stages formerly required; thus, improving overall system reliability as well as reducing cost.

CTT's most recent contribution to microwave power is focused on the automated production of power modules.

This capital investment has improved individual productivity by a factor of 3, and

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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	Max
APM/020-2416	0.5-2.0	16	1.00	8.0	24	2:1	15	280	HC2
APM/020-2425	0.5-2.0	25	1.00	4.5	24	2:1	15	330	HC2
APM/020-2435	0.5-2.0	35	1.25	4.5	24	2:1	15	380	HC2
APM/020-2715	0.5-2.0	15	1.00	8.5	27	2:1	15	450	HC2
APM/020-2724	0.5-2.0	24	1.25	5.0	27	2:1	15	520	HC2
APM/020-2733	0.5-2.0	33	1.50	4.5	27	2:1	15	580	HC2
APM/020-2746	0.5-2.0	46	1.75	4.5	27	2:1	15	680	HC4
APM/020-3010	0.5-2.0	10	1.00	8.5	30	2:1	15	550	HS2
APM/020-3027	0.5-2.0	27	1.25	6.0	30	2:1	15	720	HS4
APM/020-3036	0.5-2.0	36	1.50	4.5	30	2:1	15	800	HS4
APM/020-3045	0.5-2.0	45	1.75	4.5	30	2:1	15	900	HS4
APM/020-3326	0.5-2.0	26	1.25	8.0	33	2:1	15	1200	HPS6
APM/020-3335	0.5-2.0	35	1.50	5.0	33	2:1	15	1250	HPS6
APM/020-3344	0.5-2.0	44	1.50	5.0	33	2:1	15	1300	HPS6
APM/020-3532	0.5-2.0	32	1.50	6.0	35	2:1	15	2800	HDS8
APM/020-3542	0.5-2.0	42	2.00	5.0	35	2:1	15	2850	HDS8
APM/020-3635	0.5-2.0	35	1.50	5.0	36	2:1	15	3000	HDS8
APM/020-3644	0.5-2.0	44	2.00	5.0	36	2:1	15	3050	HDS8
APO/020-2724	1.0-2.0	24	1.00	5.0	27	2:1	15	520	HC2
APO/020-2733	1.0-2.0	33	1.25	4.5	27	2:1	15	580	HC4
APO/020-3027	1.0-2.0	27	1.25	5.5	30	2:1	15	720	HS4
APO/020-3046	1.0-2.0	46	1.50	5.0	30	2:1	15	830	HS6
APO/020-3327	1.0-2.0	27	1.25	8.0	33	2:1	15	1200	HPS6
APO/020-3336	1.0-2.0	36	1.50	5.0	33	2:1	15	1250	HPS6
APO/020-3345	1.0-2.0	45	1.50	5.0	33	2:1	15	1300	HPS6
APO/020-3535	1.0-2.0	35	1.50	5.5	35	2:1	15	2400	HPS8
APO/020-3545	1.0-2.0	45	2.00	5.0	35	2:1	15	2500	HPS8
APO/020-3735	1.0-2.0	35	1.50	5.0	37	2:1	15	3600	HPS10
APO/020-3745	1.0-2.0	45	2.00	5.0	37	2:1	15	3700	HPS10
APO/020-4040	1.0-2.0	40	1.50	8.0	40	2:1	15	7700	HDS14
APO/020-4050	1.0-2.0	50	1.50	8.0	40	2:1	15	7800	HDS14

New Products

* = Saturated power.