

Rack-Mount Power Amplifiers

0.5 GHz to 18 GHz

- ✓ **Solid-State Power Amplifiers from 3 to 100 Watts**
- ✓ **Frequency Coverage from 0.5 GHz to 18 GHz**
- ✓ **MIC Thin-Film Design for High Reliability**
- ✓ **Water or Air Cooled Heat Sink Options**
- ✓ **TTL Controlled Pulsed Amplifiers Available**
- ✓ **Custom Engineered Options (CEOs)**



These 19 inch rack mount amplifiers are designed for wide or narrow band linear applications covering 0.5 to 18 GHz. Any CTT amplifier can be placed into this package. Solid-state power transistors (Bipolar or GaAs FET) are used to achieve high MTBF. The RP series are designed to operate in the linear region to maximize third order intercept point, while the RS series operate in the saturated mode to achieve maximum output power. Cooling fans and heat sinks are built in to keep the junction temperature of the transistors in a safe operating region. All units have EMI/RFI filter, built in regulator and/or sequential bias

circuit for protection. The units can operate from 0 to +50°C. The specifications shown below are guaranteed at +25°C. Output power monitor, rear panel connectors, waveguide input or output, alarm circuitry, attenuator or DC-DC converter are optional.

Contact CTT with your specialized application. These units are ideally suitable for commercial, industrial, and military applications which need low maintenance, good performance and high reliability. They are most suitable for TWT replacement, driver amplifier, transmitter, ground stations and point-to-point communication requirements.

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Model Number	Frequency (GHz)	Gain (dB)	Flatness (±dB)	Noise Figure (dB)	P1dB (dBm/Watts)	Psat (dBm/Watts)	VSWR	Case Size (Inches)
		Min	Max	Max	Min	Min	Max	
RPM/020-3644	0.5-2.0	44	2.00	4.0	40/10	–	2.0:1	19 x 5.25 x 17
RPO/040-4047	2.0-4.0	47	2.00	4.0	40/10	–	2.0:1	19 x 5.25 x 17
RPO/080-3637	4.0-8.0	37	1.75	5.0	36/4	–	2.0:1	13 x 3.50 x 17
RPO/080-4042	4.0-8.0	42	2.00	5.0	40/10	–	2.0:1	19 x 5.25 x 17
RPM/180-3640	6.0-18.0	40	2.5	8.0	36/4	–	2.0:1	19 x 3.50 x 17
RPM/180/3840	6.0-18.0	40	2.5	8.0	38/6.3	–	2.0:1	19 x 5.25 x 17
RPN/019-4343	1.7-1.9	43	0.75	4.5	–	43/20	1.5:1	19 x 5.25 x 17
RPN/027-4243	2.5-2.7	43	0.75	4.5	–	43/20	1.5:1	19 x 5.25 x 17
RSN/035-4340	3.1-3.5	40	0.75	4.5	–	43/20*	1.5:1	19 x 5.25 x 17
RSN/050-5050	4.4-5.0	50	0.75	5.0	–	50/100*	1.5:1	19 x 7.00 x 17
RSW/058-4346	4.4-5.8	46	0.75	5.0	–	43/20*	2.0:1	19 x 5.25 x 17
RPN/064-5050	5.9-6.4	50	1.00	5.5	50/100	–	1.5:1	19 x 7.00 x 17
RSN/096-4442	8.5-9.6	42	1.25	8.0	–	44/30*	1.5:1	19 x 5.25 x 17
RSN/105-4040	9.5-10.5	40	1.25	8.0	–	40/10*	1.5:1	19 x 5.25 x 17
RSN/145-4040	14.0-14.5	40	1.25	8.0	40/10	–	1.5:1	19 x 5.25 x 17

Rack-Mont Power Amplifier Comments:

- * = Saturated power
- CTT has more models available, please contact the factory for different specifications or options.
- Industry standard 19 inch rack.
- For screening options see page 35.
- All specifications guaranteed at +25°C.