

Avantek Products

Wideband Small Signal Amplifiers 12.0 to 18.0 GHz

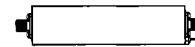
Technical Data

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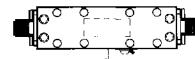
AMT Series

AMT —
High Performance and
Temperature Compensated
Connectorized Amplifier
Series

Pin Configuration IC₋, IS₋, IX₋



MAC₋, MAS₋, MAX₋⁽⁵⁾



(See Section 5 for detailed case drawings.)

AMT Series⁴

Guaranteed Specifications @ 25°C Case Temperature

Model	Frequency Response (GHz) Minimum	Gain (dB) Minimum	Typical Gain (dB)	Noise Figure (dB) Typ./Max.	Power Output for 1 dB Gain Compression (dBm) Minimum	Gain Flatness (±dB) Maximum	Typical Third Order Intercept Point (dBm)	VSWR (50 ohms) Maximum In Out	Input Power Current @ +12 V ¹ Typical (mA)	Case Type
AMT-18032	12-18	14	20	5.5/6.5 ²	+13 ³	1.0	+21	2.0 2.0	140	IX2
AMT-18033	12-18	20	26	5.0/6.5 ²	+13 ³	1.0	+21	2.0 2.0	190	IX4
AMT-18034	12-18	26	32	5.0/6.5 ²	+15 ³	1.0	+23	2.0 2.0	260	IX4
AMT-18035	12-18	32	38	5.0/6.5 ²	+15 ³	1.5	+23	2.0 2.0	310	IX6
AMT-18036	12-18	38	44	5.0/6.5 ²	+15 ³	1.5	+23	2.0 2.0	360	IX6
AMT-18037	12-18	44	50	5.0/6.5 ²	+15 ³	2.0	+23	2.0 2.0	410	IX8

AMT Series —Temperature Compensated⁴

Guaranteed Specifications @ -54° to +100°C Case Temperature

AMT-18044	12-18	20	25	7.5 Max.	+12	2.0	+20	2.0 2.0	290	IX6
AMT-18045	12-18	25	30	7.5 Max.	+15	2.5	+23	2.0 2.0	350	IX6
AMT-18046	12-18	30	36	7.5 Max.	+15	2.5	+23	2.0 2.0	440	IX8
AMT-18047	12-18	36	44	7.5 Max.	+18	3.0	+26	2.0 2.0	410	IX8
AMT-18048	12-18	42	50	7.5 Max.	+18	3.0	+26	2.0 2.0	570	IX10

Notes:

- Units contain internal voltage regulator and operate with input voltage of +12 to -15 Vdc.
- Lower noise figure versions are available on special request.
- Higher P_{OUT} at 1 dB compression versions are available on special request.
- For a description of all available product options, refer to the beginning of this subsection.
- MA-Series case options available on selected amplifiers upon special request.