

Avantek Products

Wideband Small Signal Amplifiers 2.0 to 4.0 GHz

Technical Data

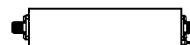
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AMT Series

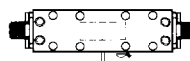
AMT —

High Performance and
Temperature Compensated
Connectorized Amplifier
Series

Pin Configuration IC₁, IS₁, IX₁



MAC₁, MAS₁, MAX₁⁽³⁾



(See Section 5 for detailed case drawings.)

AMT Series²

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-4211	2-4	13.0	16.0	1.2/1.4	+9	0.5	+17	2.0 2.0	65	IS2
AMT-4212	2-4	27.0	31.0	1.2/1.4	+13	0.75	+21	2.0 2.0	115	IS2
AMT-4213	2-4	40.0	45.0	1.2/1.4	+20	1.0	+28	2.0 2.0	225	IS4
AMT-4032	2-4	26.0	30.0	2.0/2.2	+12	1.0	+20	2.0 2.0	125	IS2
AMT-4033	2-4	39.0	44.0	2.0/2.2	+20	1.0	+28	2.0 2.0	225	IS4
AMT-4051	2-4	12.5	15.5	3.3/3.8	+20	1.0	+28	2.0 2.0	120	IS2
AMT-4052	2-4	26.0	30.0	2.3/2.7	+20	1.0	+28	2.0 2.0	175	IS2
AMT-4053	2-4	39.0	44.0	2.3/2.7	+20	1.0	+28	2.0 2.0	225	IS4
AMT-4054	2-4	52.0	58.0	2.3/2.7	+20	1.0	+28	2.0 2.0	280	IS4

AMT Series —Temperature Compensated²

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

AMT-4082	2-4	22	26	3.2 Max.	+15	1.50	+23	2.0 2.0	225	IS4
AMT-4083	2-4	34	38	2.9 Max.	+20	1.75	+28	2.0 2.0	330	IS4
AMT-4084	2-4	46	51	2.9 Max.	+20	2.00	+28	2.0 2.0	380	IS6
AMT-4062	2-4	22	26	5.0 Max.	+20	1.50	+28	2.0 2.0	280	IS4
AMT-4063	2-4	34	38	3.8 Max.	+20	1.75	+28	2.0 2.0	330	IS4
AMT-4064	2-4	46	51	3.8 Max.	+20	2.00	+28	2.0 2.0	380	IS6

Notes:

- Units contain internal voltage regulator and operate with input voltage of +12 to +15 Vdc.
- 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.