

Avantek Products

Wideband Small Signal Amplifiers 4.0 to 8.0 GHz

Technical Data

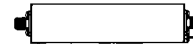
1

AMT Series

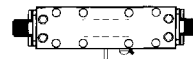
AMT —

**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 ⁽³⁾ Typical (mA)	Case Type
AMT-8071	4-8	10	12	2.1/2.5	+6	0.50	+15	2.0 2.0	50	IC2
AMT-8072	4-8	20	24	2.3/2.7	+7	1.00	+15	2.0 2.0	100	IC2
AMT-8073	4-8	30	35	2.3/2.7	+13	1.50	+21	2.0 2.0	175	IC4
AMT-8074	4-8	39	45	2.3/2.7	+18	2.00	+26	2.0 2.0	275	IC4
AMT-8032	4-8	19	23	3.3/3.7	+15	1.00	+23	2.0 2.0	125	IC2
AMT-8033	4-8	29	34	3.0/3.5	+15	1.00	+23	2.0 2.0	180	IC4
AMT-8034	4-8	38	45	3.0/3.5	+15	1.25	+23	2.0 2.0	220	IC4
AMT-8035	4-8	48	56	3.0/3.5	+15	1.50	+23	2.0 2.0	275	IC6
AMT-8052	4-8	18	22	4.0/5.2	+20	1.00	+28	2.0 2.0	200	IC2
AMT-8053	4-8	27	32	3.2/3.8	+20	1.00	+28	2.0 2.0	250	IC4
AMT-8054	4-8	37	44	3.0/3.5	+20	1.25	+28	2.0 2.0	300	IC4
AMT-8055	4-8	46	54	3.0/3.5	+20	1.50	+28	2.0 2.0	350	IC6

AMT Series— Temperature Compensated²

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

AMT-8083	4-8	25.0	29	4.2 Max.	+15	1.25	+23	2.0 2.0	230	IC4
AMT-8084	4-8	34.0	39.5	3.8 Max.	+15	1.50	+23	2.0 2.0	275	IC6
AMT-8085	4-8	43.0	50	3.8 Max.	+15	1.75	+23	2.0 2.0	325	IC6
AMT-8043	4-8	24.0	28	5.0 Max.	+15	1.25	+23	2.0 2.0	225	IC4
AMT-8044	4-8	31.5	37	4.5 Max.	+15	1.50	+23	2.0 2.0	250	IC6
AMT-8045	4-8	40.0	47	4.5 Max.	+15	1.75	+23	2.0 2.0	300	IC6
AMT-8063	4-8	22.0	26	7.0 Max.	+20	1.50	+28	2.0 2.0	350	IC4
AMT-8064	4-8	29.0	35	5.2 Max.	+20	1.75	+28	2.0 2.0	400	IC6
AMT-8065	4-8	37.0	44	5.0 Max.	+20	2.00	+28	2.0 2.0	450	IC6

- Notes: 1. Units contain internal voltage regulator and operate with input voltage of +12 to +15 Vdc.
2. For a description of all available product options, refer to the beginning of this subsection.
3. MA-Series case options available on selected amplifiers upon special request.