

## Avantek Products

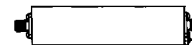
# Wideband Small Signal Amplifiers 7.0 to 12.4 GHz

## Technical Data

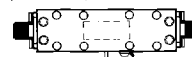
### AMT Series

**AMT —**  
High Performance and  
Temperature Compensated  
Connectorized Amplifier  
Series

**Pin Configuration**  
IC<sub>-</sub>, IS<sub>-</sub>, IX<sub>-</sub>



MAC<sub>-</sub>, MAS<sub>-</sub>, MAX<sub>-</sub><sup>(3)</sup>



(See Section 5 for detailed case drawings.)

### AMT Series<sup>2</sup>

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	VSWR (50 ohms) Maximum Out	Input Power Current @ +12 V <sup>1</sup> Typical (mA)	Case Type
AMT-12711	7-12.4	10	13	2.2/2.3	+9	0.5	+17	2.0	2.0	85	IX2
AMT-12713	7-12.4	30	35	2.2/2.3	+15	1.0	+23	2.0	2.0	225	IX4
AMT-12714	7-12.4	37	44	2.2/2.3	+20	1.5	+28	2.0	2.0	400	IX4
AMT-12432	7-12.4	17	21	3.9/4.5	+15	1.0	+23	2.0	2.0	140	IX2
AMT-12433	7-12.4	25	31	3.9/4.5	+15	1.0	+23	2.0	2.0	210	IX4
AMT-12434	7-12.4	31	39	3.7/4.0	+15	1.0	+23	2.0	2.0	230	IX4
AMT-12435	7-12.4	38	45	3.7/4.0	+15	1.5	+23	2.0	2.0	290	IX6
AMT-12436	7-12.4	47	55	3.7/4.0	+15	1.5	+23	2.0	2.0	350	IX6
AMT-12453	7-12.4	23	29	4.5/5.0	+20	1.0	+28	2.0	2.0	330	IX4
AMT-12454	7-12.4	32	40	3.9/4.5	+20	1.0	+28	2.0	2.0	390	IX4
AMT-12455	7-12.4	36	44	3.8/4.0	+20	1.5	+28	2.0	2.0	400	IX6
AMT-12456	7-12.4	45	53	3.8/4.0	+20	1.5	+28	2.0	2.0	450	IX6

### AMT Series —Temperature Compensated<sup>2</sup>

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

AMT-12483	7-12.4	18	24	4.9 Max.	+13	1.0	+21	2.0	2.0	230	IX4
AMT-12484	7-12.4	25	33	5.2 Max.	+15	1.5	+23	2.0	2.0	300	IX6
AMT-12485	7-12.4	32	41	4.7 Max.	+15	1.5	+23	2.0	2.0	330	IX6
AMT-12486	7-12.4	38	47	4.4 Max.	+15	2.0	+23	2.0	2.0	370	IX8
AMT-12487	7-12.4	45	55	4.2 Max.	+15	2.5	+23	2.0	2.0	420	IX8
AMT-12443	7-12.4	20	26	5.7 Max.	+13	1.0	+21	2.0	2.0	230	IX4
AMT-12444	7-12.4	27	35	6.0 Max.	+15	1.5	+23	2.0	2.0	300	IX6
AMT-12445	7-12.4	31	40	5.5 Max.	+15	1.5	+23	2.0	2.0	320	IX6
AMT-12446	7-12.4	36	45	5.2 Max.	+15	2.0	+23	2.0	2.0	350	IX8
AMT-12447	7-12.4	44	54	5.0 Max.	+15	2.5	+23	2.0	2.0	410	IX8
AMT-12464	7-12.4	21	29	6.7 Max.	+20	1.5	+28	2.0	2.0	420	IX6
AMT-12465	7-12.4	30	38	6.0 Max.	+20	1.5	+28	2.0	2.0	460	IX6
AMT-12466	7-12.4	36	45	5.6 Max.	+20	2.0	+28	2.0	2.0	640	IX8

- 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.