

## Avantek Products

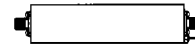
# Wideband Small Signal Amplifiers 8.0 to 20.0 GHz

## Technical Data

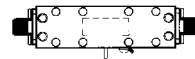
### AMT and AWT Series

**AMT, AWT —  
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)	Gain (dB)	Typical Gain (dB)	Noise Figure (dB)	Power Output for 1 dB Gain Compression (dBm)	Gain Flatness (±dB)	Typical Third Order Intercept Point (dBm)	VSWR (50 ohms)		Input Power Current @ +12 V <sup>1</sup>	Case Type
	Minimum	Minimum		Typ./Max.	Minimum	Maximum		In	Out	Typical (mA)	
AMT-20032	12-20	10	14	7.0	+17.0	1.0	+25	2.0	2.0	175	IX2
AMT-20033	12-20	15	20	7.0	+17.0	1.0	+25	2.0	2.0	250	IX4
AMT-20034	12-20	21	27	7.0	+17.0	1.5	+25	2.0	2.0	325	IX4
AMT-20035	12-20	26	33	7.0	+17.0	1.5	+25	2.0	2.0	400	IX6
AMT-20036	12-20	32	40	7.0	+17.0	2.0	+25	2.0	2.0	475	IX6

### AWT Series<sup>2</sup>

Guaranteed Specifications @ 25°C Case Temperature

AWT-20832	8-20	10	14	8.0	+16.0	1.0	+24	2.0	2.0	175	IX2
AWT-20833	8-20	15	20	8.0	+16.0	1.0	+24	2.0	2.0	250	IX4
AWT-20834	8-20	21	27	8.0	+16.0	1.5	+24	2.0	2.0	325	IX4
AWT-20835	8-20	26	33	8.0	+16.0	1.5	+24	2.0	2.0	400	IX6
AWT-20836	8-20	32	40	8.0	+16.0	2.0	+24	2.0	2.0	485	IX6

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.