

# Avantek Products

## Wideband Small Signal Amplifiers 2.0 to 8.0 GHz

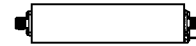
### Technical Data

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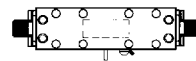
#### AWT Series

**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.)

#### AWT 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 <sub>I</sub> Typical (mA)	Case Type
AWT-8032	2-8	16	21	4.0/4.2	+15	1.00	+23	2.0	2.0	165	IC2
AWT-8033	2-8	24	31	3.8/4.0	+15	1.25	+23	2.0	2.0	235	IC4
AWT-8034	2-8	33	41	3.8/4.0	+15	1.50	+23	2.0	2.0	320	IC4
AWT-8035	2-8	41	50	3.8/4.0	+15	1.75	+23	2.0	2.0	400	IC6
AWT-8052	2-8	15	20	5.0/6.0	+20	1.00	+28	2.0	2.0	275	IC2
AWT-8053	2-8	23	30	3.9/4.5	+20	1.25	+28	2.0	2.0	350	IC4
AWT-8054	2-8	32	40	3.8/4.0	+20	1.50	+28	2.0	2.0	425	IC4
AWT-8055	2-8	40	49	3.8/4.0	+20	1.75	+28	2.0	2.0	510	IC6

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

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

AWT-8043	2-8	18.5	24.5	5.8 Max.	+15	1.75	+23	2.0	2.0	270	IC4
AWT-8044	2-8	26.5	32.5	5.5 Max.	+15	2.00	+23	2.0	2.0	340	IC6
AWT-8045	2-8	34.0	41.0	5.3 Max.	+15	2.25	+23	2.0	2.0	420	IC6
AWT-8063	2-8	18.0	24.0	7.5 Max.	+20	2.00	+28	2.0	2.0	400	IC4
AWT-8064	2-8	25.0	32.0	5.7 Max.	+20	2.25	+28	2.0	2.0	470	IC6
AWT-8065	2-8	32.5	41.5	5.5 Max.	+20	2.50	+28	2.0	2.0	550	IC6

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.