

Avantek Products

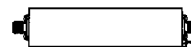
Wideband Small Signal Amplifiers 8.0 to 18.0 GHz

Technical Data

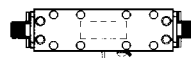
AWT Series

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

**Pin Configuration
IC₋, IS₋, IX₋**



MAC₋, MAS₋, MAX₋ (4)



(See Section 5 for detailed case drawings.)

AWT Series³

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 ¹	Case Type
	Minimum	Minimum	(dB)	Typ./Max.	Minimum	Maximum	(dBm)	In Out	Typical (mA)	
AWT-18032	8-18	14	20	5.5/6.5 ²	+13	1.0	+21	2.0 2.0	140	IX2
AWT-18033	8-18	20	26	5.5/6.5 ²	+13	1.0	+21	2.0 2.0	190	IX4
AWT-18034	8-18	26	32	5.5/6.5 ²	+15	1.0	+23	2.0 2.0	260	IX4
AWT-18035	8-18	32	38	5.5/6.5 ²	+15	1.5	+23	2.0 2.0	310	IX6
AWT-18036	8-18	38	44	5.5/6.5 ²	+15	1.5	+23	2.0 2.0	370	IX6
AWT-18037	8-18	44	50	5.5/6.5 ²	+15	2.0	+23	2.0 2.0	430	IX8
AWT-18054	8-18	24	30	5.5/7.0	+20	1.0	+28	2.0 2.0	370	IX4
AWT-18055	8-18	30	36	5.5/7.0	+20	1.5	+28	2.0 2.0	420	IX6
AWT-18056	8-18	36	42	5.5/7.0	+20	1.5	+28	2.0 2.0	480	IX6
AWT-18057	8-18	42	50	5.5/7.0	+20	2.0	+28	2.0 2.0	520	IX8

AWT Series —Temperature Compensated³

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

AWT-18044	8-18	20	25	7.5 Max.	+12	2.0	+20	2.0 2.0	290	IX6
AWT-18045	8-18	25	30	7.5 Max.	+15	2.5	+23	2.0 2.0	350	IX6
AWT-18046	8-18	30	36	7.5 Max.	+15	2.5	+23	2.0 2.0	430	IX8
AWT-18047	8-18	36	44	7.5 Max.	+18	3.0	+26	2.0 2.0	500	IX8
AWT-18048	8-18	42	50	7.5 Max.	+18	3.0	+26	2.0 2.0	575	IX10
AWT-18066	8-18	28	36	8.5 Max.	+20	2.5	+28	2.0 2.0	520	IX8
AWT-18067	8-18	36	44	7.5 Max.	+20	3.0	+28	2.0 2.0	600	IX8

Notes:

- Units contain internal voltage regulator and operate with input voltage of +12 to +15 Vdc.
- Lower noise figure versions are available on special request.
- 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.