

Avantek Products

Wideband Small Signal Amplifiers 5.0 to 13.0 GHz

Technical Data

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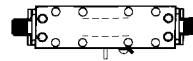
AWT Series

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

Pin Configuration IC_, IS_, IX_



MAC_, MAS_, MAX_ ⁽³⁾



(See Section 5 for detailed case drawings.)

AWT 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 ¹ Typical (mA)	Case Type
AWT-13531	5-13	6	9	2.6/3.2	+10	0.75	+18	2.0 2.0	65	IX2
AWT-13532	5-13	13	17	3.1/3.5	+10	1.0	+18	2.0 2.0	130	IX2
AWT-13533	5-13	20	26	3.1/3.5	+15	1.25	+23	2.0 2.0	185	IX4
AWT-13534	5-13	28	36	3.1/3.5	+15	1.5	+23	2.0 2.0	245	IX4
AWT-13032	5-13	17	21	4.3/4.5	+15	1.0	+23	2.0 2.0	140	IX2
AWT-13033	5-13	25	30	4.3/4.5	+15	1.0	+23	2.0 2.0	200	IX4
AWT-13034	5-13	33	40	4.3/4.5	+15	1.0	+23	2.0 2.0	260	IX4
AWT-13035	5-13	41	49	4.3/4.5	+15	1.5	+23	2.0 2.0	320	IX6
AWT-13036	5-13	49	57	4.3/4.5	+15	1.5	+23	2.0 2.0	380	IX6

AWT Series —Temperature Compensated²

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

AWT-13083	5-13	20	25	5.2 Max.	+13	1.5	+21	2.0 2.0	220	IX4
AWT-13084	5-13	26	32	5.0 Max.	+13	1.5	+21	2.0 2.0	280	IX6
AWT-13085	5-13	33	41	5.0 Max.	+15	2.0	+23	2.0 2.0	340	IX6
AWT-13086	5-13	40	48	5.0 Max.	+15	2.5	+23	2.0 2.0	400	IX8
AWT-13043	5-13	20	25	6.0 Max.	+13	1.5	+21	2.0 2.0	220	IX4
AWT-13044	5-13	27	33	6.0 Max.	+15	1.5	+23	2.0 2.0	280	IX6
AWT-13045	5-13	34	42	6.0 Max.	+15	2.0	+23	2.0 2.0	340	IX6
AWT-13046	5-13	41	49	6.0 Max.	+15	2.5	+23	2.0 2.0	400	IX8

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.