

Avantek Products

Wideband Small Signal Amplifiers 0.5 to 20.0 GHz

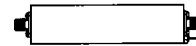
Technical Data

1

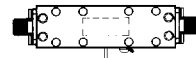
AWT Series

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-12012	0.5-12	27.0	32	5.5/6.5	+10	1.5	+18	2.3 2.0	325	IX2
AWT-12013	0.5-12	41.0	49	5.5/6.5	+10	2.0	+18	2.3 2.0	475	IX4
AWT-19133	1-19	14.5	19	10.5 Max.	+10	2.0	+18	2.2 2.2	275	IX4
AWT-19134	1-19	20.0	27	10.5 Max.	+10	2.5	+18	2.2 2.2	365	IX4
AWT-19135	1-19	25.0	34	10.5 Max.	+10	3.0	+18	2.2 2.2	455	IX6
AWT-18233	2-18	14.5	19	10.0 Max.	+10	1.5	+18	2.2 2.2	275	IX4
AWT-18234	2-18	20.0	27	10.0 Max.	+10	2.0	+18	2.2 2.2	365	IX4
AWT-18235	2-18	25.0	34	10.0 Max.	+10	2.5	+18	2.2 2.2	455	IX6
AWT-18236	2-18	30.0	40	10.0 Max.	+10	3.0	+18	2.2 2.2	545	IX6
AWT-18212	2-18	29.0	34	5.8/6.5	+10	1.5	+18	2.2 2.2	250	IX2
AWT-18213	2-18	42.0	50	5.8/6.5	+10	2.0	+18	2.2 2.2	350	IX4
AWT-18252	2-18	10.0	15	10.0 Max.	+20	1.0	+28	2.2 2.2	375	IX2
AWT-18253	2-18	15.0	22	10.0 Max.	+20	1.5	+28	2.2 2.2	550	IX4
AWT-18254	2-18	20.0	28	10.0 Max.	+20	2.0	+28	2.2 2.2	650	IX4
AWT-20233	2-20	14.5	19	11.0 Max.	+10	1.5	+18	2.2 2.2	275	IX4
AWT-20234	2-20	20.0	27	11.0 Max.	+10	2.0	+18	2.2 2.2	365	IX4
AWT-20235	2-20	25.0	34	11.0 Max.	+10	2.5	+18	2.2 2.2	455	IX6
AWT-20236	2-20	30.0	40	11.0 Max.	+10	3.0	+18	2.2 2.2	545	IX6

AWT Series — Temperature Compensated²

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

AWT-18244	2-18	18	26	11.0 Max.	+9	3.0	+17	2.2 2.2	425	IX4
AWT-18245	2-18	22	31	11.0 Max.	+9	3.5	+17	2.2 2.2	510	IX6
AWT-18246	2-18	26	36	11.0 Max.	+9	4.0	+17	2.2 2.2	600	IX6

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.