

Avantek Products

Wideband Small Signal Amplifiers 4.0 to 11.0 GHz

Technical Data

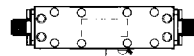
AWT Series

**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-11471	4.0-11.0	8	11	2.1/2.5	+7	0.75	+18	2.0 2.0	65	IX2
AWT-11472	4.0-11.0	17	21	2.3/2.7	+7	1.00	+18	2.0 2.0	130	IX2
AWT-11473	4.0-11.0	26	31	2.3/2.7	+13	1.25	+23	2.0 2.0	200	IX4
AWT-11474	4.0-11.0	34	41	2.3/2.7	+20	1.50	+28	2.0 2.0	380	IX4
AWT-10532	4.5-10.5	17	21	4.3/4.5	+15	1.00	+23	2.0 2.0	120	IC2
AWT-10533	4.5-10.5	26	31	4.2/4.5	+15	1.00	+23	2.0 2.0	160	IC4
AWT-10534	4.5-10.5	34	41	4.2/4.5	+15	1.25	+23	2.0 2.0	210	IC4
AWT-10535	4.5-10.5	43	51	4.2/4.5	+15	1.50	+23	2.0 2.0	250	IC6
AWT-10552	4.5-10.5	15	20	5.5/6.0	+20	1.00	+28	2.0 2.0	275	IC2
AWT-10553	4.5-10.5	24	30	4.8/5.0	+20	1.25	+28	2.0 2.0	320	IC4
AWT-10554	4.5-10.5	32	40	4.2/4.5	+20	1.50	+28	2.0 2.0	360	IC4
AWT-10555	4.5-10.5	41	50	4.2/4.5	+20	1.75	+28	2.0 2.0	400	IC6

AWT Series —Temperature Compensated²

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

AWT-11484	4.0-11.0	25.0	31	4.0 Max.	+7	2.00	+15	2.0 2.0	300	IX6
AWT-11485	4.0-11.0	32.0	39	4.0 Max.	+13	2.25	+21	2.0 2.0	365	IX6
AWT-10543	4.5-10.5	21.0	26	6.0 Max.	+15	1.75	+23	2.0 2.0	230	IC4
AWT-10544	4.5-10.5	28.0	34	6.0 Max.	+15	2.00	+23	2.0 2.0	250	IC6
AWT-10545	4.5-10.5	35.5	42	6.0 Max.	+15	2.25	+23	2.0 2.0	290	IC6
AWT-10563	4.5-10.5	19.0	24	7.0 Max.	+20	1.75	+28	2.0 2.0	375	IC4
AWT-10564	4.5-10.5	27.0	34	6.5 Max.	+20	2.00	+28	2.0 2.0	450	IC6
AWT-10565	4.5-10.5	33.0	41	6.0 Max.	+20	2.25	+28	2.0 2.0	475	IC6

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.