

Avantek Products

Wideband Small Signal Amplifiers 0.5 to 2.0 GHz

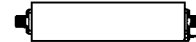
Technical Data

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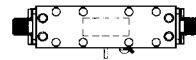
AWT Series

**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)		Gain Flatness (±dB) Maximum	Typical Third Order Intercept Point (dBm)	VSWR (50 ohms)		Input Power Current @ +12 V _I Typical (mA)	Case Type
					Minimum	Maximum			In	Out		
AWT-2071	0.5-2.0	10	13	2.1/2.5	+11	0.50	+20	2.0	2.0	75	IS2	
AWT-2072	0.5-2.0	21	26	2.3/2.7	+11	0.75	+20	2.0	2.0	150	IS2	
AWT-2073	0.5-2.0	33	40	2.4/2.8	+20	1.00	+29	2.0	2.0	260	IS4	
AWT-2032	0.5-2.0	23	27	2.8/3.5	+13	1.25	+21	2.0	2.0	100	IS2	
AWT-2033	0.5-2.0	35	40	2.8/3.5	+13	1.25	+21	2.0	2.0	160	IS4	
AWT-2034	0.5-2.0	47	53	2.8/3.5	+13	1.25	+21	2.0	2.0	200	IS4	
AWT-2053	0.5-2.0	35	40	3.2/3.5	+20	1.25	+28	2.0	2.0	260	IS4	
AWT-2054	0.5-2.0	47	53	3.2/3.5	+20	1.25	+28	2.0	2.0	310	IS4	

AWT Series —Temperature Compensated²

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

AWT-2082	0.5-2.0	19	23	3.6/4.0	+13	1.50	+21	2.0	2.0	170	IS4
AWT-2083	0.5-2.0	30	34	3.4/3.8	+13	1.75	+21	2.0	2.0	220	IS4
AWT-2084	0.5-2.0	41	46	3.4/3.8	+13	2.00	+21	2.0	2.0	260	IS6
AWT-2042	0.5-2.0	19	23	4.5/4.7	+13	1.50	+21	2.0	2.0	150	IS4
AWT-2043	0.5-2.0	30	34	4.2/4.5	+13	1.75	+21	2.0	2.0	200	IS4
AWT-2044	0.5-2.0	41	46	4.2/4.5	+13	2.00	+21	2.0	2.0	250	IS6
AWT-2063	0.5-2.0	30	34	4.2/4.5	+20	1.75	+28	2.0	2.0	275	IS4
AWT-2064	0.5-2.0	41	46	4.2/4.5	+20	2.00	+28	2.0	2.0	325	IS6

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.