

Avantek Products

Wideband Small Signal Amplifiers 6.0 to 12.0 GHz

Technical Data

1

AFT and AMT Series

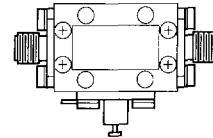
AFT —

Avanpak Series Amplifiers,
Connectorized or Stripline
Compatible

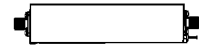
AMT —

High Performance and
Temperature Compensated
Connectorized Amplifier
Series

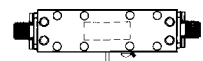
Pin Configuration BC_, BS_, BX_



IC_, IS_, IX_



MAC_, MAS_, MAX_ ⁽³⁾



(See Section 5 for detailed case drawings.)

AFT Series²

Guaranteed Specifications @ 25°C Case Temperature

Model	Frequency Response (GHz)	Gain (dB)	Gain	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 (mA)	Case Type
	Minimum	Minimum	(dB)	Typ./Max.	Minimum	Maximum	(dBm)	In	Out		
AFT-12631-XXF	6-12	7.5	8.0 Typ.	6.0/6.5	+10	0.7	+20	2.0	2.0	75 Typ.	BX2
AFT-12632-XXF	6-12	15.0	16.0 Typ.	5.7/6.0	+10	1.0	+20	2.0	2.0	150 Typ.	BX2
AFT-12633-XXF	6-12	22.5	24.0 Typ.	4.2/4.5	+14	1.0	+24	2.0	2.0	175 Typ.	BX4
AFT-12634-XXF	6-12	30.5	32.0 Typ.	4.2/4.5	+14	1.5	+24	2.0	2.0	225 Typ.	BX4
AFT-12635-XXF	6-12	38.0	40.0 Typ.	4.2/4.5	+14	2.0	+24	2.0	2.0	275 Typ.	BX6
AFT-12661-XXF	6-12	5.0	5.5 Typ.	7.5/8.0	+20	0.7	+29	2.0	2.0	175 Typ.	BX2
AFT-12662-XXF	6-12	13.0	14.0 Typ.	6.0/6.5	+20	1.0	+29	2.0	2.0	250 Typ.	BX2
AFT-12663-XXF	6-12	21.0	22.0 Typ.	5.0/5.5	+20	1.0	+29	2.0	2.0	300 Typ.	BX4
AFT-12664-XXF	6-12	28.0	29.0 Typ.	4.5/5.0	+20	1.5	+29	2.0	2.0	350 Typ.	BX4
AFT-12665-XXF	6-12	36.5	38.0 Typ.	4.5/5.0	+20	2.0	+29	2.0	2.0	400 Typ.	BX6

AMT Series—Temperature Compensated²

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

AMT-12064	6-12	21	29 Max.	7.7 Max.	+20	1.5	+28	2.0	2.0	520 Max.	IX6
AMT-12065	6-12	32	40 Max.	5.0 Max.	+20	1.5	+28	2.0	2.0	460 Max.	IX6
AMT-12066	6-12	37	45 Max.	4.5 Max.	+20	2.0	+28	2.0	2.0	520 Max.	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.