

## Avantek Products

# Wideband Small Signal Amplifiers 8.0 to 18.0 GHz

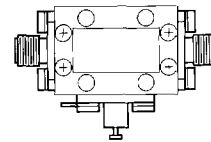
## Technical Data

**1**

### AFT Series

**AFT —**  
**Avanpak Series Amplifiers,**  
**Connectorized or Stripline**  
**Compatible**

### Pin Configuration BC\_, BS\_, BX\_



(See Section 5 for detailed case drawings.)

### AFT Series<sup>2</sup>

Guaranteed Specifications @ 25°C Case Temperature

Model	Frequency Response (GHz)	Gain (dB)	Typical Gain (dB)	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 <sup>1</sup>	Case Type
	Minimum	Minimum	(dB)	Typ./Max.	Minimum	Maximum	(dBm)	In	Out	Typical (mA)	
AFT-18831-XXF	8-18	7.0	7.5	6.4/6.7	+10	1.0	+20	2.0	2.0	75	BX2
AFT-18832-XXF	8-18	13.0	14.0	6.5/7.0	+10	1.0	+20	2.0	2.0	125	BX2
AFT-18833-XXF	8-18	18.5	20.0	6.5/7.0	+10	1.0	+20	2.0	2.0	175	BX4
AFT-18834-XXF	8-18	24.5	26.0	6.5/7.0	-10	1.5	+20	2.0	2.0	250	BX4
AFT-18835-XXF	8-18	30.0	32.0	6.5/7.0	+10	2.0	+20	2.0	2.0	300	BX6
AFT-18851-XXF	8-18	5.0	5.5	7.0/7.3	+15	1.0	+25	2.0	2.0	100	BX2
AFT-18852-XXF	8-18	11.0	12.0	7.0/7.3	+15	1.0	+25	2.0	2.0	165	BX2
AFT-18853-XXF	8-18	18.5	20.0	6.6/7.1	+15	1.0	+25	2.0	2.0	225	BX4
AFT-18854-XXF	8-18	24.5	26.0	6.6/7.1	+15	1.5	+25	2.0	2.0	275	BX4
AFT-18855-XXF	8-18	32.0	34.0	6.6/7.1	+15	2.0	+25	2.0	2.0	325	BX6
AFT-18862-XXF	8-18	9.5	10.5	8.7/9.2	+20	1.0	+29	2.0	2.0	325	BX2
AFT-18863-XXF	8-18	15.0	16.5	8.2/8.7	+20	1.0	+29	2.0	2.0	360	BX4
AFT-18864-XXF	8-18	23.0	24.5	6.6/7.1	+20	1.5	+29	2.0	2.0	425	BX4
AFT-18865-XXF	8-18	30.5	32.5	6.6/7.1	+20	2.0	+29	2.0	2.0	475	BX6

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.