

## Avantek Products

# Wideband Small Signal Amplifiers 2.0 to 4.0 GHz

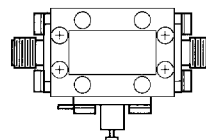
## Technical Data

### 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)<br>Minimum | Gain (dB)<br>Minimum | Typical Gain (dB) | Noise Figure (dB)<br>Typ./Max. | Power Output for 1 dB Gain Compression (dBm)<br>Minimum | Gain Flatness (±dB)<br>Maximum | Typical Third Order Intercept Point (dBm) | VSWR (50 ohms)<br>Maximum In Out | Input Power Current @ +12 V <sup>1</sup><br>Typical (mA) | Case Type |
|--------------|-------------------------------------|----------------------|-------------------|--------------------------------|---------------------------------------------------------|--------------------------------|-------------------------------------------|----------------------------------|----------------------------------------------------------|-----------|
| AFT-4231-XXF | 2-4                                 | 11.5                 | 12.0              | 3.6/4.0                        | +13                                                     | 1.0                            | +23                                       | 2.0 2.0                          | 75                                                       | BS2       |
| AFT-4232-XXF | 2-4                                 | 23.0                 | 24.0              | 3.6/4.0                        | +13                                                     | 1.0                            | +23                                       | 2.0 2.0                          | 150                                                      | BS2       |
| AFT-4233-XXF | 2-4                                 | 35.0                 | 36.0              | 3.6/4.0                        | +13                                                     | 1.0                            | +23                                       | 2.0 2.0                          | 225                                                      | BS4       |
| AFT-4234-XXF | 2-4                                 | 47.0                 | 48.0              | 3.6/4.0                        | +13                                                     | 1.5                            | +23                                       | 2.0 2.0                          | 300                                                      | BS4       |
| AFT-4261-XXF | 2-4                                 | 10.0                 | 10.5              | 4.7/5.0                        | +20                                                     | 1.0                            | +29                                       | 2.0 2.0                          | 175                                                      | BS2       |
| AFT-4262-XXF | 2-4                                 | 21.5                 | 22.5              | 3.6/4.0                        | +20                                                     | 1.0                            | +29                                       | 2.0 2.0                          | 225                                                      | BS2       |
| AFT-4263-XXF | 2-4                                 | 34.0                 | 35.0              | 3.6/4.0                        | +20                                                     | 1.0                            | +29                                       | 2.0 2.0                          | 275                                                      | BS4       |
| AFT-4264-XXF | 2-4                                 | 44.5                 | 46.0              | 3.6/4.0                        | +20                                                     | 1.5                            | +29                                       | 2.0 2.0                          | 325                                                      | BS4       |

#### 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.