



# MULTI-OCTAVE WIDEBAND MICROWAVE AMPLIFIERS

0.1 – 12 GHz

## FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Flat Gain Response
- Miniature Sizes for Drop-In Assembly
- Hermetically Sealed Package for Military Application



## APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics
- Telecom Infrastructure

## ENVIRONMENTAL RATINGS

Max Input Power.....100mW  
 Operating Temperature Range.....-55°C to +85°C  
 Storage Temperature Range.....-65°C to +125°C  
 Shock..... 50G, 11 msec  
 Vibration..... 20G, 100 to 2000 Hz

## Specifications: (@ +25°C)

MODEL	FREQ. RANGE (GHz)	MIN GAIN (dB)	MAX GAIN VARIATION (+/- dB)	MAX <sup>1</sup> N. F. (dB)	MAX VSWR	MIN P OUT @ 1 dB COMP (dBm)	NOM DC <sup>2</sup> CURRENT @ +12V (mA)	OUTLINE
AF01-80183013B AF01-80273013B AF01-80363013B	0.1 - 8.0	18 27 36	0.5 0.75 1.0	3.0	2:1	+13 +13 +13	80 110 140	1D 1D 2A
A01-80183516B A01-80273516B A01-80363516B	0.1 - 8.0	18 27 36	0.5 0.75 1.0	3.5	2:1	+16 +16 +16	80 110 140	1D 1D 2A
A01-80173518B A01-80263518B A01-80353518B	0.1 - 8.0	17 26 35	0.75 1.0 1.25	3.5	2:1	+18 +18 +18	100 130 160	1D 1D 2A
AF0110163013B AF0110243013B AF0110323013B	0.1 - 10.0	16 24 32	0.5 0.75 1.0	3.0	2:1	+13 +13 +13	80 110 140	1D 1D 2A
A0110153516B A0110233516B A0110313016B	0.1 - 10.0	15 23 31	0.5 0.75 1.0	3.5	2:1	+16 +16 +16	80 110 140	1D 1D 2A
A0110153518B A0110233518B A0110313518B	0.1 - 10.0	15 23 31	0.5 0.75 1.0	3.5	2:1	+18 +18 +18	100 130 160	1D 1D 2A
AF0112153013B AF0112223013B AF0112303013B	0.1 - 12.0	15 22 30	0.5 0.75 1.0	3.0	2:1	+13 +13 +13	80 110 140	1D 1D 2A
A0112153516B A0112223516B A0112293516B	0.1 - 12.0	15 22 29	0.5 0.75 1.0	3.5	2:1	+16 +16 +16	80 110 140	1D 1D 2A
A0112153518B A0112223518B A0112293518B	0.1 - 12.0	15 22 29	0.5 0.75 1.0	3.5	2:1	+18 +18 +18	100 140 180	1D 1D 2A

Note 1: Noise figure higher @ frequencies below 500 MHz

Note 2: Options for other bias voltages +15, +8, or +5V available for total power consumption budget

For Package Outlines see Outline Drawings Page