



# MULTI-OCTAVE WIDEBAND MICROWAVE AMPLIFIERS

0.1 – 20 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
AF0116153013B AF0116223013B AF0116293013B	0.1 -16	15 22 29	0.75 1.0 1.25	3.0	2:1	+13 +13 +13	80 110 140	1D 1D 2A
A0116153516B A0116223516B A0116293616B	0.1 -16	15 22 29	0.75 1.0 1.25	3.5	2:1	+16 +16 +16	80 110 140	1D 1D 2A
A0116153518B A0116223518B A0116293518B	0.1 -16	15 22 29	0.75 1.0 1.25	3.5	2:1	+18 +18 +18	100 130 160	1D 1D 2A
AF0118153513B AF0118223513B AF0118293513B	0.1 – 18	15 22 29	1.0 1.25 1.5	3.5	2:1	+13 +13 +13	80 110 140	1D 1D 2A
AF0118153515B AF0118223516B AF0118293516B	0.1 – 18	15 22 29	1.0 1.25 1.5	3.5	2:1	+15 +16 +16	80 110 140	1D 1D 2A
A0118144018B A0118214018B A0118284018B	0.1 – 18	14 21 28	1.0 1.25 1.5	4.0	2:1	+18 +18 +18	100 150 200	1D 1D 2A
AF0120163508B AF0120233510B AF0120303510B	0.1 – 20	16 23 30	1.0 1.5 1.75	3.5	2:1	+8 +10 +10	80 110 140	1D 1D 2A
AF0120153511B AF0120233513B AF0120303513B	0.1 – 20	15 23 30	1.0 1.5 1.75	3.5	2:1	+11 +13 +13	80 110 140	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