



# MULTI-OCTAVE ULTRA WIDEBAND MICROWAVE AMPLIFIERS

0.01 – 20 GHz

## FEATURES

- Extremely Broad Bandwidth
- Excellent Gain Flatness
- Very Low Noise Figure
- Uncompromised Input and Output VSWR
- Very Low Power Consumption
- 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 @ +5V (mA)	OUTLINE
AF0118193A	0.1 - 18	19	0.8	2.8	2:1	+ 8	60	0A
AF0118273A	0.1 - 18	27	1.2	2.8	2:1	+ 10	100	1D
AF0118353A	0.1 - 18	35	1.5	2.8	2:1	+ 15	150	1D
AF0120183A	0.1 - 20	18	0.8	2.8	2:1	+ 8	60	0A
AF0120253A	0.1 - 20	25	1.2	2.8	2:1	+ 10	100	1D
AF0120323A	0.1 - 20	32	1.6	3.0	2:1	+ 10	130	1D
AF00118173A	0.01 - 18	17	1.0	3.0	2:1	+ 8	60	1D
AF00118253A	0.01 - 18	25	1.4	3.0	2:1	+ 10	100	2A
AF00118333A	0.01 - 18	33	1.8	3.0	2:1	+ 12	150	2A
AF00120173A	0.01 - 20	17	1.0	3.0	2:1	+ 8	60	1D
AF00120243A	0.01 - 20	24	1.5	3.0	2:1	+ 8	90	2A
AF00120313A	0.01 - 20	31	2.0	3.0	2:1	+ 8	120	2A

Note 1: Noise figure higher @ frequencies below 500 MHz  
 Note 2: Options for other bias voltages +15, +12, or +8V

For Package Outlines see Outline Drawings Page