



MULTI-OCTAVE WIDEBAND MICROWAVE AMPLIFIERS

0.5 – 20 GHz

FEATURES

- Miniature Size for Drop-In Application
- Very Low Power Consumption (requires only +3.2V bias)
- Flat Gain Response
- Low Noise Figure
- Options for Various Size Packages
- 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 N. F. (dB)	MAX VSWR	MIN P OUT @ 1 dB COMP (dBm)	DC POWER		OUTLINE ²
							VOLTS ¹	(mA) NOM	
AF051814A	0.5 – 18	14	1.0	3.5	2:1	+5	+3.2	46	0A, 1B, 1D, L3, 1B, 1D, 1B, 1D, 2A
AF051821A		21	1.25			+5	+3.2	60	
AF051828A		28	1.5			+10	+5.0	100	
AF1-1814A	1.0 – 18	14	1.0	3.5	2:1	+5	+3.2	46	0A, 1B, 1D, L3, 1B, 1D, 1B, 1D, 2A
AF1-1821A		21	1.25			+5	+3.2	60	
AF1-1828A		28	1.5			+10	+5.0	100	
AF2-1814A	2.0 – 18	14	1.0	3.5	2:1	+5	+3.2	46	0A, 1B, 1D, L3, 1B, 1D, 1B, 1D, 2A
AF2-1821A		21	1.25			+5	+3.2	60	
AF2-1828A		28	1.5			+10	+5.0	100	
AF052013A	0.5 – 20	13	1.0	4.0	2.2:1	+5	+3.2	46	0A, 1B, 1D, L3, 1B, 1D, 1B, 1D, 2A
AF052019A		19	1.5			+5	+3.2	60	
AF052025A		25	2.0			+8	+5.0	100	
AF1-2013A	1.0 – 20	13	1.0	4.0	2.2:1	+5	+3.2	46	0A, 1B, 1D, L3, 1B, 1D, 1B, 1D, 2A
AF1-2019A		19	1.5			+5	+3.2	60	
AF1-2025A		25	2.0			+8	+5.0	100	
AF2-2013A	2.0 – 20	13	1.0	4.0	2.2:1	+5	+3.2	46	0A, 1B, 1D, L3, 1B, 1D, 1B, 1D, 2A
AF2-2019A		19	1.5			+5	+3.2	60	
AF2-2025A		25	2.0			+8	+5.0	100	

Note 1: Integral voltage regulator is available for bias voltage +8, +12, or +15V
 Note 2: Add the desired outline to the end of the model number

For Package Outlines see Outline Drawings Page