



MINIATURE ULTRA-WIDEBAND RF AMPLIFIERS

0.5 – 40 GHz

FEATURES

- Wide Bandwidth
- Miniature Sizes For Drop-In Applications
- Low Power Consumption
- Flat Gain Response
- Low Noise Figure



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 ¹		OUTLINE ²
							VOLTS	(mA) NOM	
AF182055	0.5 - 18	11	1.0	5.0	2.1	+ 3	+ 3.2	30	1A, L3
AF118055	1.0 - 18								
AF218055	2.0 - 18								
AF202056	0.5 - 20	11	1.0	6.0	2.5:1	+ 3	+ 3.2	30	1A, L3
AF122056	1.0 - 20								
AF220056	2.0 - 20								
AF182093	0.5 - 18	15	1.0	5.0	2:1	+ 3	+ 3.2	45	1A, L3
AF118093	1.0 - 18								
AF218093	2.0 - 18								
AF182094	0.5 - 18	20	1.5	5.5	2.2:1	+ 10	+ 5.0	150	1A
AF118094	1.0 - 18								
AF218094	2.0 - 18								
A182275	6.0 - 18	24	1.0	4.0	2:1	+ 10	+ 6.0	120	1B
A262273	2.0 - 26	8	1.5	10.0 TYP	2.3:1	+ 15	+ 12	200	1C
A262274	2.0- 26	14	2.5	10.0 TYP	2.3:1	+ 19	+ 12	500	1C
A262276	18 - 26	28	2.0	5.0 TYP	2:1	+ 12	+ 12	250	1C
A402412	18 - 40	15	2.0	9.0 TYP	2.5:1	+ 6	+ 12	120	1C
A402277	26 - 40	29	2.5	6.0 TYP	2.5:1	+ 16	+ 12	400	1C

Note 1: DC power requirement – Current listed is the nominal value for bias voltages below 6V variation +/- 0.2V from specified. Permanent damage will occur if higher voltage is applied. Option is available for internally integrated regulator for bias voltage of +12V or +15V. (Packages size may change) Internal Regulator is provided +12V Bias Modules. Also, option is available including voltage regulator for +12V or +15V Bias.

Note 2: Standard Outline is 1A or 1C as specified. Add "L3" to end of model number for L3 Option

For Package Outlines see Outline Drawings Page