



# MINIATURE WIDEBAND RF AMPLIFIERS

0.1 – 2.0 GHz

## FEATURES

- More Than One Octave Band Frequency Range
- Small Size With Removable Connectors for Drop-In Integration
- Low Power Consumption Options
- Flat Gain Response
- Internal Regulator Circuit for Unregulated Power Supplies



## 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	P OUT @ 1 dB COMP (dBm)	NOM DC <sup>1</sup> CURRENT @ +12V (mA)	OUTLINE
A0105116A A0105216A A0105316A	0.1 - 0.5	11 21 31	0.5 0.5 0.75	6	2:1	+ 15	80 140 180	2A 2A 3B
A0215115A A0205215A A0205315A	0.2 - 1.0	11 21 31	0.5 0.5 0.75	5	2:1	+ 15	80 140 180	2A
A0110106A A0110206A A0110306A	0.1 - 1.0	10 20 30	0.5 0.75 0.75	6	2:1	+ 15	80 140 180	2A 2A 3B
A0515104A A0515204A A0515304A	0.5 - 1.5	10 20 30	0.5 0.5 0.75	4	2:1	+ 15	80 140 180	2A
A0520104A A0520204A A0520304A	0.5 - 2.0	10 20 30	0.5 0.5 0.75	4	2:1	+ 15	80 140 180	2A
A0220105A A0220205A A0220305A	0.2 - 2.0	10 20 30	0.5 0.75 0.75	5	2:1	+ 15	80 140 180	2A
A0120106A A0120206A A0120306A	0.1 - 2.0	10 20 30	0.5 0.75 1.0	6	2:1	+ 15	80 140 180	2A 2A 3B

Note 1: For proper operation the bias voltage shall be limited to +12 V. For lower DC power consumption consideration options are available for DC supplies +7 to +10 V or for regulated +5 V DC supply.

For Package Outlines see Outline Drawings Page