

High Performance Amplifier, 8 dB Gain 30 - 250 MHz

AM-/AMC-119

V2.00

Features

- 2.3 dB Typical Midband Noise Figure
- +23 dBm Typical Midband Output Power
- +40 dBm Typical Midband Third Order Intercept

Guaranteed Specifications*

(From -55°C to +85°C Case Temp)

Frequency Range	30-250 MHz
Gain (+25°C) @250 MHz	8.0 ±0.5 dB
Frequency Response	±0.75 dB Max
Gain Variation with Temperature	±1.0 dB Max
Output Power (1 dB Compression)	+20 dBm Min
Noise Figure	3.5 dB Max
Reverse Transmission	-9.5 dB Max -11.0 dB Typ
VSWR	2.3:1 Max
Intermodulation Intercept Point (for two-tone output power up to +10 dBm)	
Second Order	+39 dBm Min
Third Order	+34 dBm Min
Bias Power	+15 VDC @60 mA Max (50 mA, 750 mW Typ)

Operating Characteristics

Impedance	50 Ohms Nominal
Maximum Rating	
RF Input	+13 dBm Max

Environmental

MIL-STD-883 screening available.

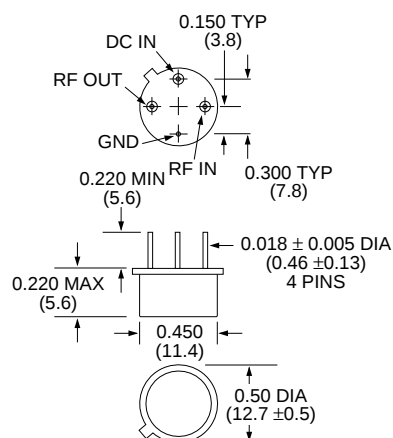
* All specifications apply when operated at +15 VDC with 50 ohm source and load impedance.
This product contains elements protected by United States Patent 3,891,934.
Heat Sinking: Operation at case temperature above 95°C is not recommended. Heat sinking adequate to dissipate 1 W. Must be provided in use.

Ordering Information

Model No.	Package
AM-119* PIN	TO-8-1
AMC-119 SMA	Connectorized

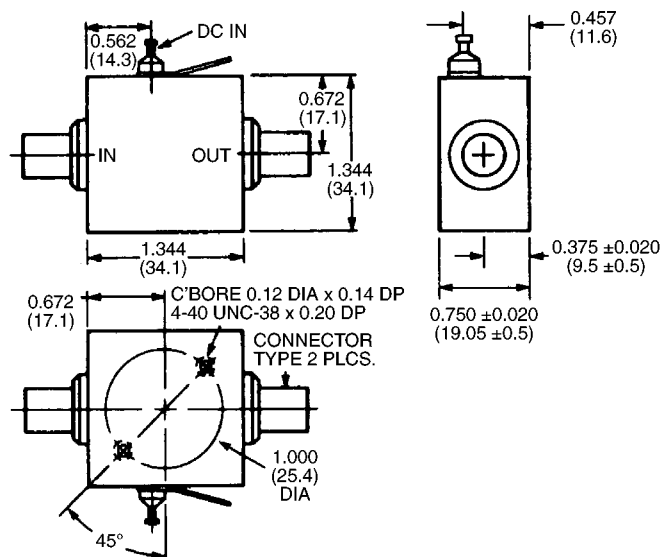
* Mounting kit part number AU00071 required for PCB applications.

TO-8-1



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
.xx = ±0.02 (.x = ±0.5)
WEIGHT (APPROX.): 0.10 OUNCES 2.8 GRAMS

C-32



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
.xx = ±0.02 (.x = ±0.5)
WEIGHT (APPROX.): 1.62 OUNCES 46 GRAMS

Specifications Subject to Change Without Notice.

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Typical Performance

