



# 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)

<b>Frequency Range</b>	30-250 MHz
<b>Gain (+25°C) @ 250 MHz</b>	8.0 ±0.5 dB
<b>Frequency Response</b>	±0.75 dB Max
<b>Gain Variation with Temperature</b>	±1.0 dB Max
<b>Output Power (1 dB Compression)</b>	+20 dBm Min
<b>Noise Figure</b>	3.5 dB Max
<b>Reverse Transmission</b>	-9.5 dB Max -11.0 dB Typ
<b>VSWR</b>	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
<b>Bias Power</b>	+15 VDC @60 mA Max (50 mA, 750 mW Typ)

### Operating Characteristics

<b>Impedance</b>	50 Ohms Nominal
<b>Maximum Rating</b>	
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.

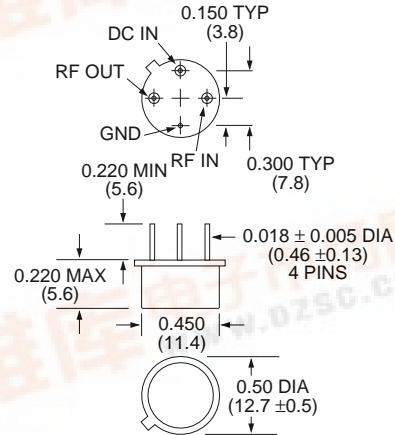
Heat Sinking: Operation at case temperature above 95°C is not recommended. Heat sinking adequate to dissipate 1 W. Must be provided in use.

### Ordering Information

<b>Model No.</b>	<b>Package</b>
AM-119* PIN	TO-8-1
AMC-119 SMA	Connectorized

\* Mounting kit part number AU00071 required for PCB applications.

### TO-8-1



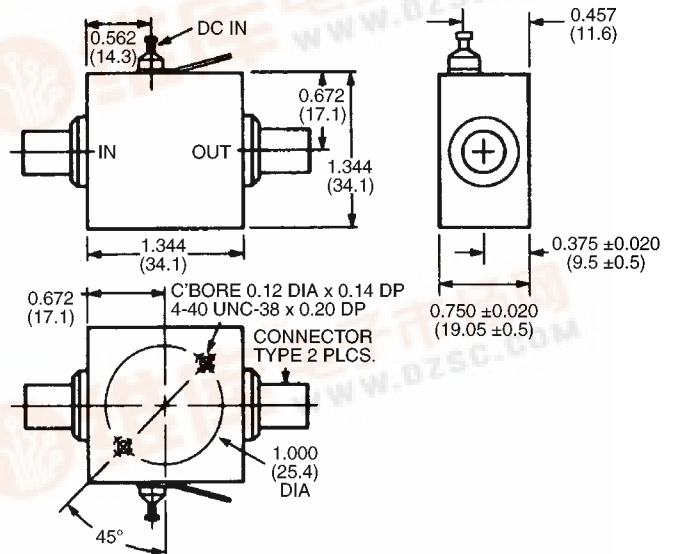
Dimensions in ( ) are in mm.

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



Typical Performance

