

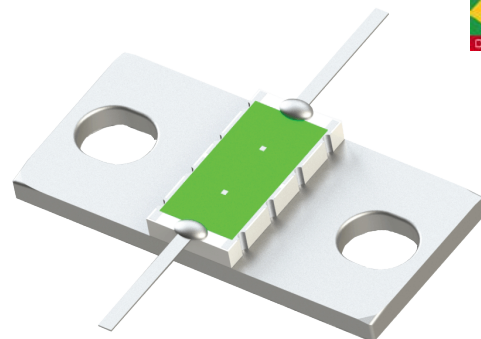


### AXXXX-150-10Y Features:

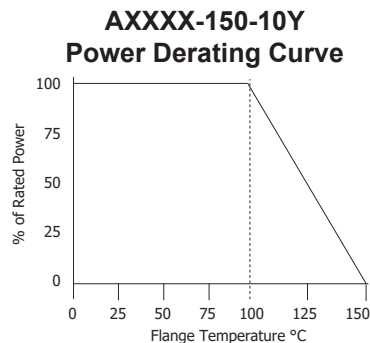
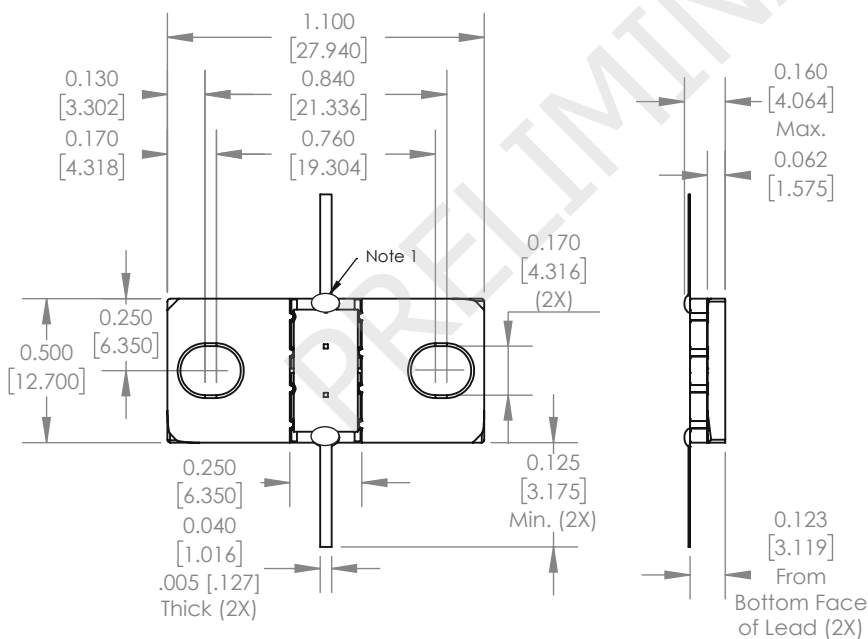
- Flange Mount
- RoHS Compliant
- Customer Defined Testing Available
- High Rated Power
- Epoxy Reinforced Leads
- Symmetrical Design<sup>1</sup>

### AXXXX-150-10Y Parameters:

Attenuation Range :	0 - 23.5dB
Operating Frequency:	DC - 8GHz
Attenuation Tolerance:	see next page
Return Loss (Typical):	see next page
Input Power:	150W**
Impedance:	50Ω
Resistor Construction:	Thick Film on BeO
Flange Construction:	Silver Plated Copper
Lead Construction:	Silver Plated Copper
Operating Temperature:	-55 to +150°C



### AXXXX-150-10Y Dimensions:



Dimensions in inches [mm]  
Tolerance is ± 0.010 [0.254] unless otherwise stated

1 Epoxy Reinforced Lead (2X)  
<sup>1</sup> Can be mounted in either direction  
\*\* For 0dB to 10dB. Rating based on ≤100°C constant baseplate temperature

### Ordering Information:

A	XXXX	-	150	-	10Y
Prefix for Flanged Attenuator with BeO Substrate	Value Code Examples: 0000 - 0dB    0180 - 1.8dB 0080 - 0.8dB    0500 - 5dB 0100 - 1dB    1000 - 10dB		Input Power 150 - 150W		Assigned by Factory

Barry Industries reserves the right to change part number and/or process without notification.

### AXXXX-150-10Y Return Loss (Typical) and Attenuation Accuracy\*:

Input Power (W)	Nominal Attenuation (dB)	Attenuation @ 6GHz (dB)	Min. Return Loss (dB) (DC - 4GHz)	Min. Return Loss (dB) (4 - 6GHz)	Min. Return Loss (dB) (6 - 8GHz)	Accuracy (dB) (DC - 4GHz)	Accuracy (dB) (>4 - 6GHz)	Accuracy (dB) (>6 - 8GHz)
150	0.8	1.09 ± 0.20	18	18	17	-0.2, +0.4	-0.2, +0.5	-0.2, +0.5
150	1.8	2.04 ± 0.20	18	18	17	-0.2, +0.4	-0.2, +0.4	-0.2, +0.5
150	2.8	2.93 ± 0.30	18	18	17	-0.2, +0.3	-0.2, +0.3	-0.3, +0.4
150	3.8	3.81 ± 0.30	18	18	17	-0.2, +0.3	-0.2, +0.2	-0.5, +0.3
150	4.8	4.69 ± 0.30	18	18	17	-0.2, +0.3	-0.3, +0.3	-0.6, +0.2
150	5.8	5.56 ± 0.30	18	18	17	-0.2, +0.3	-0.5, +0.4	-0.8, +0.0
150	6.8	6.43 ± 0.30	18	18	17	-0.3, +0.3	-0.6, +0.4	-1.1, -0.1
150	8	7.46 ± 0.40	18	18	17	-0.3, +0.3	-0.8, +0.4	-1.5, -0.2
150	9	8.31 ± 0.40	18	18	17	-0.5, +0.3	-1.0, +0.4	-1.8, -0.4
150	10	9.16 ± 0.40	18	18	17	-0.5, +0.3	-1.2, +0.4	-2.1, -0.5
120	15	13.30 ± 0.50	18	18	17	-0.9, +0.3	-2.1, +0.5	-3.8, -2.2
100	20	17.30 ± 0.50	18	18	14	-1.2, +0.3	-2.9, +0.5	-5.5, -3.2
90	23.5	20.00 ± 0.50	18	17	14	-1.7, +0.2	-3.9, -1.7	-7.0, -3.0

\* Tested on 0.024" [0.6mm] board with  $\epsilon_r=2.5$  in a matched, continuous 50Ω system with proper workmanship

### AXXXX-150-10Y Reliability Data:

Parameter:	Test Condition:	Results:
Short Time Overload	Apply 1.1x Rated Power for 5 Seconds.	≤ 5.0% Resistance Shift
Rated Load Life	Apply 1/2 Power Under 40°C ±2°C 90 Minutes on/ 30 Minutes off. Repeat for 100 hours	≤ 5.0% Resistance Shift
Moisture Resistance	MIL-PRF-55342 para.4.8.9 95% RH, 25°C - 65°C	≤ 5.0% Resistance Shift
Resistance to Soldering Heat (Lead)	MIL-STD-202 Method 210 Test Condition "A"	≤ 5.0% Resistance Shift
Resistance to Soldering Heat (Assembly)	MIL-STD-202 Method 210 Test Condition "J"	≤ 5.0% Resistance Shift
Terminal Strength	MIL-STD-202 Method 211 Test Condition "A" 3lbs. Test Condition "B" 5 bends	No Significant Abnormality (Visual)
Solderability (Lead only)	MIL-STD-202 Method 208 Test C	>95% Covered
High Temperature Storage	125°C ±2°C for 500 Hours	1.) ≤ 5.0% Resistance Shift 2.) No Significant Abnormality (Visual)
Thermal Shock	-5°C to +150°C 30 Minutes Dwell, 5 Cycles	1.) ≤ 5.0% Resistance Shift 2.) No Significant Abnormality (Visual)

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