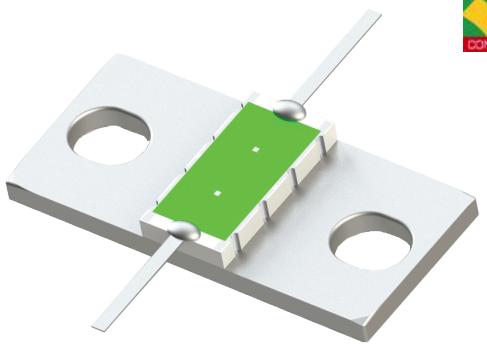
Barry Industries

150W DC-6GHz BeO Flanged Attenuator

AXXXX-150-10Y

AXXXX-150-10Y Features:

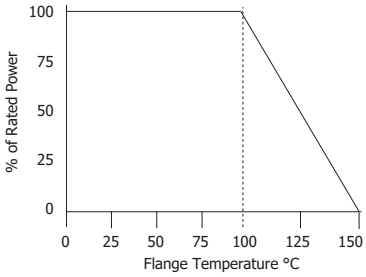
- Flange Mount
- RoHS Compliant
- Customer Defined Testing Available
- High Rated Power
- Epoxy Reinforced Leads
- Symmetrical Design[1]



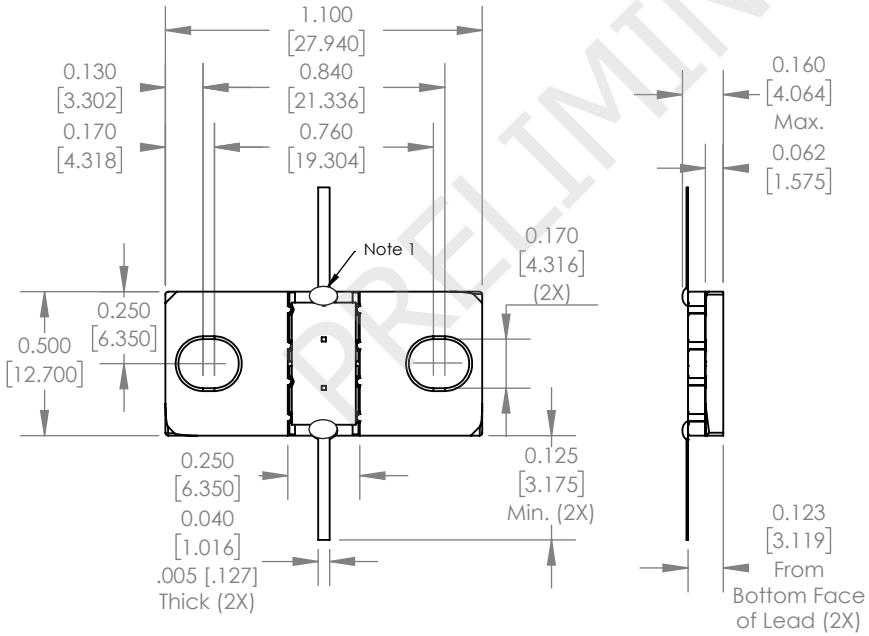
AXXXX-150-10Y Parameters:

Attenuation Range :	0 - 20dB
Operating Frequency:	DC - 6GHz
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 Power Derating Curve



AXXXX-150-10Y Dimensions:



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

1 Epoxy Reinforced Lead (2X)
[1] Can be mounted in either direction
** 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	1500 - 15dB
0080 - 0.8dB	0500 - 5dB	2000 - 20dB
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*:

Nominal Attenuation (dB)	Return Loss (dB) (DC - 4GHz)	Return Loss (dB) (>4GHz - 6GHz)	Attenuation Accuracy (dB) (DC - 4GHz)		Attenuation Accuracy (dB) (>4GHz - 6GHz)	
0.8	18 or better	18 or better	-0.2,	+0.4	-0.2,	+0.5
1.8	18 or better	18 or better	-0.2,	+0.4	-0.2,	+0.4
2.8	18 or better	18 or better	-0.2,	+0.3	-0.2,	+0.3
3.8	18 or better	18 or better	-0.2,	+0.3	-0.2,	+0.2
4.8	18 or better	18 or better	-0.2,	+0.3	-0.3,	+0.3
5.8	18 or better	18 or better	-0.2,	+0.3	-0.5,	+0.4
6.8	18 or better	18 or better	-0.3,	+0.3	-0.6,	+0.4
8	18 or better	18 or better	-0.3,	+0.3	-0.8,	+0.4
9	18 or better	18 or better	-0.5,	+0.3	-1.0,	+0.4
10	18 or better	18 or better	-0.5,	+0.3	-1.2,	+0.4
15	18 or better	18 or better	-0.9,	+0.3	-2.1,	+0.5
20	18 or better	17 or better	-1.2,	+0.3	-2.9,	+0.5

* Tested on 0.024" [0.6mm] board with εr=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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