COAXIAL

Bias-Tee

ZABT-250W-63+
ZABT-250W-63X+

50Ω 420 to 6000 MHz Up to 250W

KEY FEATURES

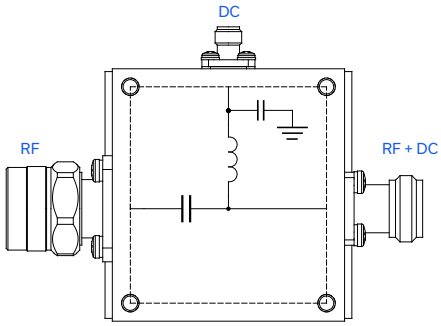
- Wideband, 420 to 6000 MHz
- High Power Handling, 250 W
- Low Insertion Loss, 0.1 dB Typ

Generic photo used for illustration purposes only

PRODUCT OVERVIEW

Mini-Circuits' ZABT-250W-63+ is a coaxial bias tee providing high power handling and low insertion loss for applications over a very wide frequency range from 420 to 6000 MHz. It provides 45 dB typical DC-RF isolation and handles up to 4.5A DC current at the DC input. This model features rugged construction with N-Type / SMA connectors.

FUNCTIONAL DIAGRAM



ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Frequency Range	-	420	-	6000	MHz
Insertion Loss	420-600	-	0.3	0.7	dB
	600-6000	-	0.1	0.3	
Return Loss (RF Port, (RF & DC Port)	420-600	10	15	-	dB
	600-6000	15	20	-	
Isolation (RF/RF & DC Port to DC Port)	420-6000	35	45	-	dB
DC Resistance (DC to RF & DC Port)	-	-	-	100	mOhm

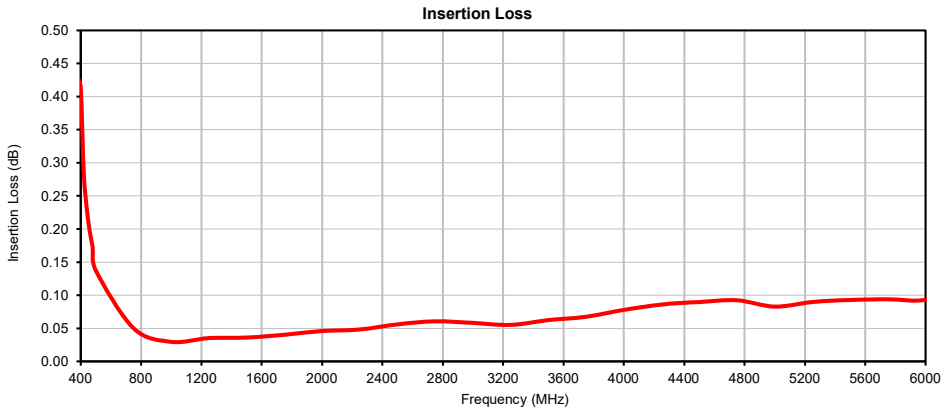
ABSOLUTE MAXIMUM RATINGS[1]

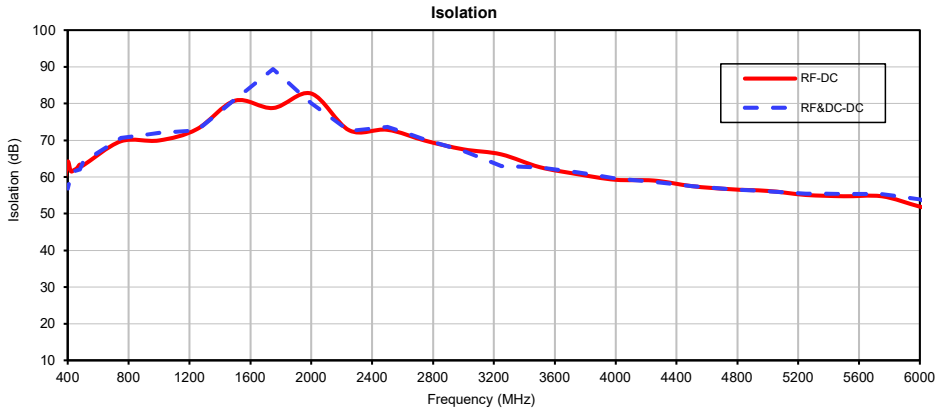
Operating Case Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
Input Power[2]	300 W
Voltage at DC Port	+50 V
Current at DC Port	4.5 A

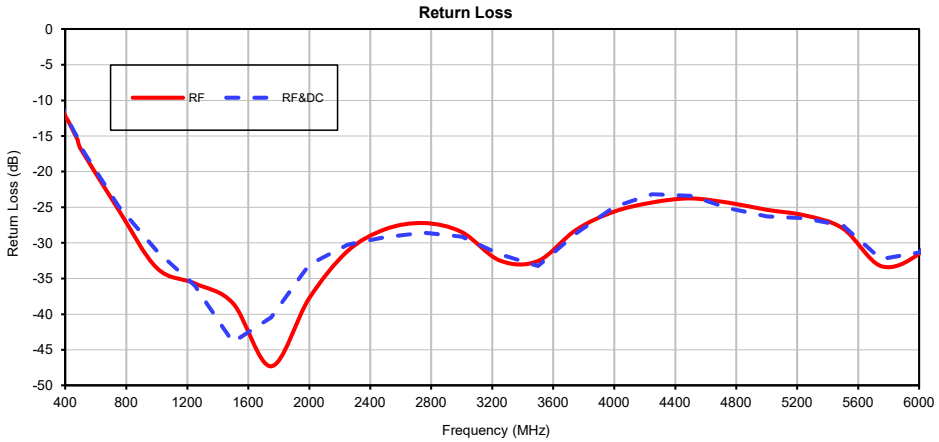
1. Permanent damage may occur if any of these limits are exceeded.
2. For units without heatsink, maximum thermal resistance of user's external heat sink should not exceed 2.2 °C/W.

REV. OR
ECO-021054
ZABT-250W-63+
MCL NY
240304

TYPICAL PERFORMANCE GRAPHS



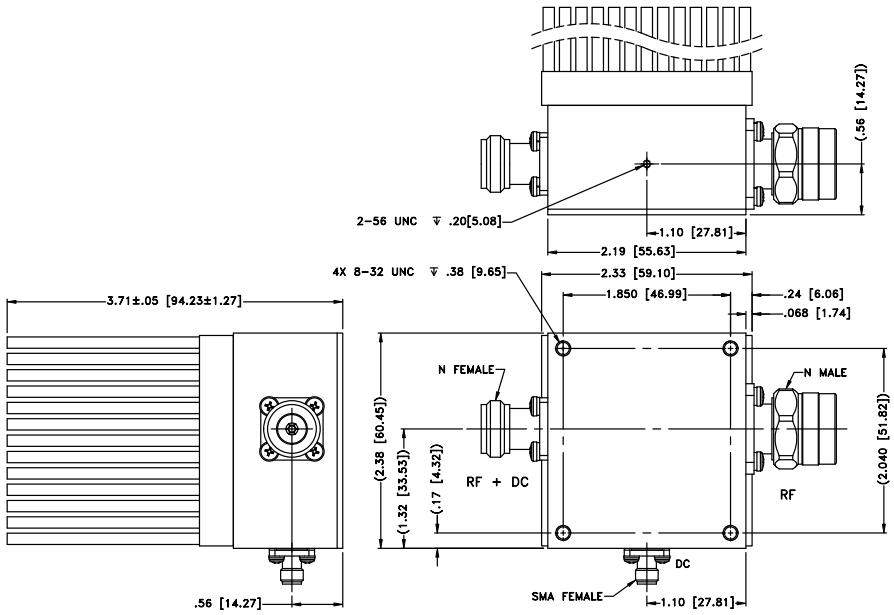




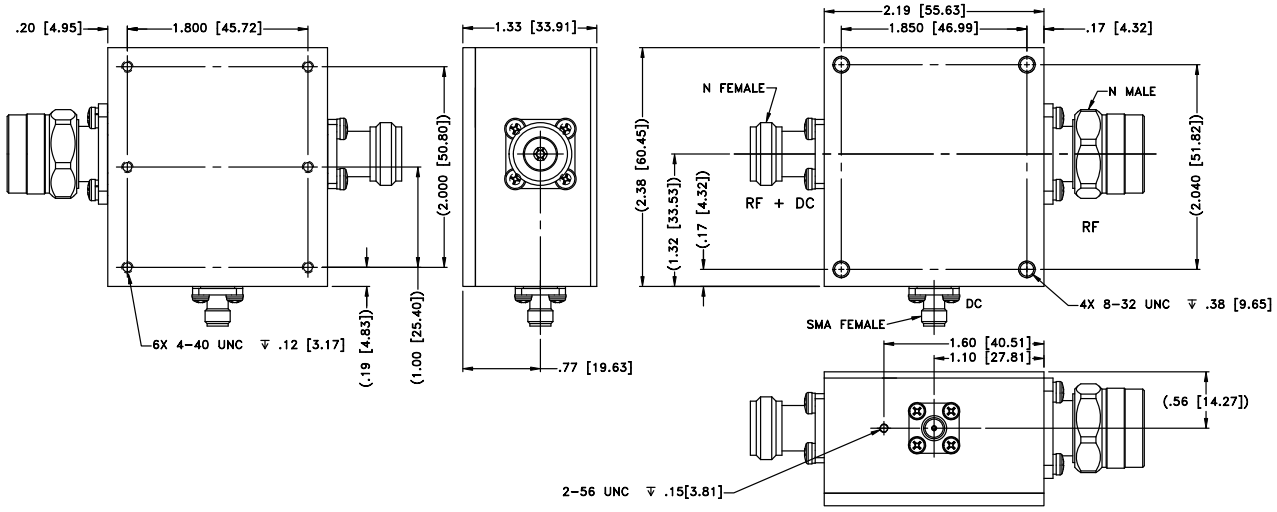
COAXIAL CONNECTIONS

Description	RF PORT	RF & DC PORT	DC PORT
Connector Type	N	N	SMA

CASE STYLE DRAWING



MOUNTING INFORMATION OF MODEL WITHOUT HEATSINK



Weight: 450 grams; Without heatsink 321 grams
Dimensions are in inches [mm]. Tolerances: 2 PI ±.03; 3 PI ±.015

PRODUCT MARKING*: ZABT-250W-63+

*Marking may contain other features or characters for internal lot control.

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD CLICK HERE

Performance Data & Graphs	Data Graphs S-Parameter (SXP Files) Data Set (.zip file)
Case Style	VY3240-1
RoHS Status	Compliant
Environmental Ratings	ENV28T23

NOTES

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html