

Engineering Development Model

Power Splitter/Combiner

ZB4PD-ED16146/2

4 Way-0°

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



CASE STYLE : BV278-2

Please click "Back", and then click "Contact Us" for Applications support.

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency		500		3300	MHz
Isolation	500-3300 MHz		24		dB
Insertion Loss Above 6.0 dB	500-3300 MHz		0.80		dB
Phase Unbalance	500-3300 MHz		2.00		deg.
Amplitude Unbalance	500-3300 MHz		0.20		dB
VSWR	SUM Port		1.25		(:1)
	OUT Ports		1.15		(:1)
DC Pass (each port)				0.5	A

MAXIMUM RATINGS		
Operating Temperature	-40°C to +60°C	
Storage Temperature	-55°C to 100°C	
Input Power (as Splitter)	500-2700 MHz	100W
	2700-3300 MHz	50W
Input Power (as Combiner)	500-3300 MHz	5W

Functional Diagram



COAXIAL CONNECTIONS	
SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4



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Typical Performance Data

Table with columns: FREQ. (MHz), TOTAL LOSS (dB), AMP UNBAL. (dB), ISOLATION (dB), PHASE UNBAL. (Deg), FREQ. (MHz), and VSWR (-1). Rows range from 100 MHz to 3750 MHz.

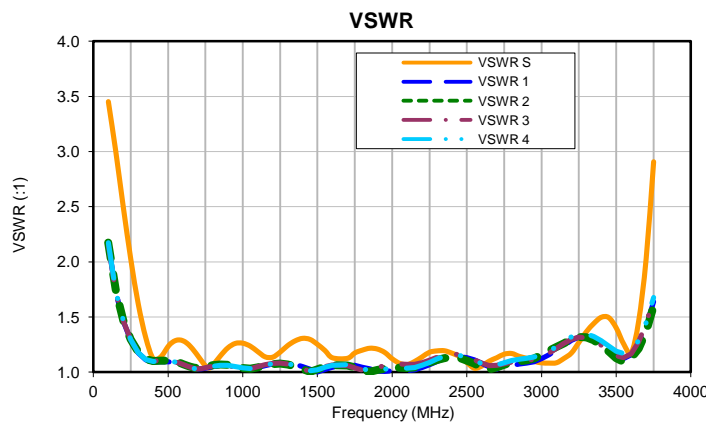
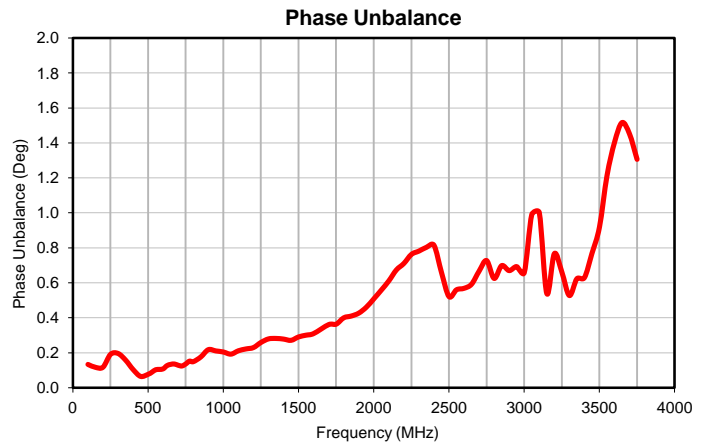
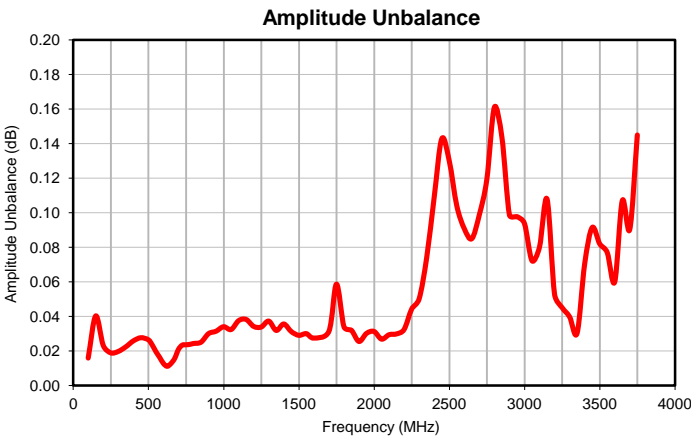
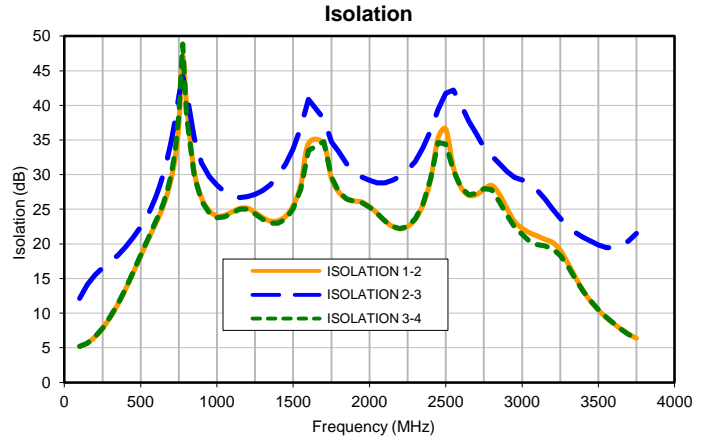
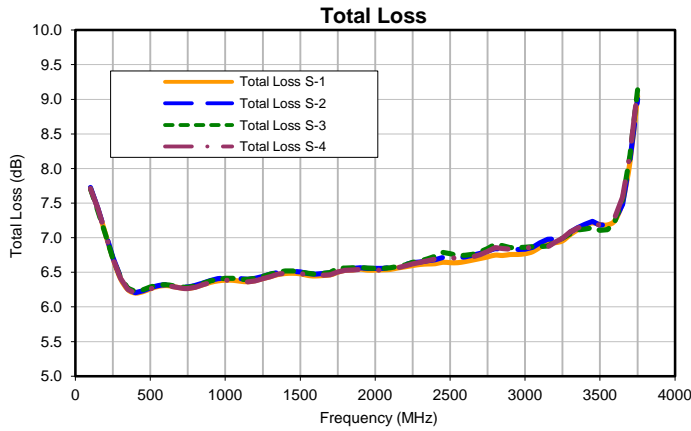
Total Loss = Insertion Loss + 6dB Splitter Loss



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Typical Performance Curves



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

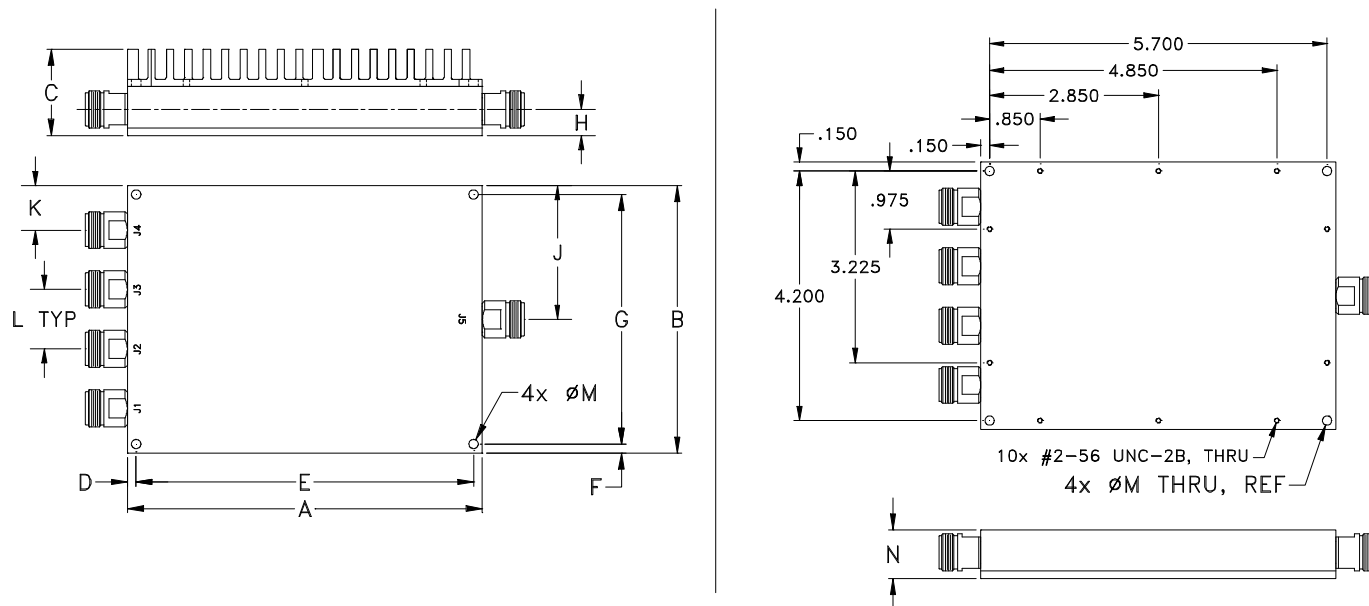


IF/RF MICROWAVE COMPONENTS

REV. X1
ZB4PD-ED16146/2
3/20/2015
Page 1 of 1

Outline Dimensions

BV278-2



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK

CASE #	A	B	C	D	E	F	G	H	J	K
BV278-2	6.00 (152.40)	4.50 (114.30)	1.45 (36.83)	.15 (3.81)	5.700 (144.78)	.15 (3.81)	4.200 (106.68)	.44 (11.18)	2.25 (57.15)	.75 (19.05)

CASE #	L	M	N	WT. GRAMS	WT. GRAMS WITHOUT HEATSINK
BV278-2	1.00 (25.40)	.156 (3.96)	.82 (20.83)	1100	800

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Heat sink finish: Black Anodize.



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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 60°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I