

Power Divider, 0.7-4GHz, 8-way, BNC Female

8-way BNC Power Divider 700 MHz to 4 GHz

WM8PD-0.7-4-B

Description

WM8PD-0.7-4-B (formerly known as D-8047-BNC) is an 8-way in-line Wilkinson Power Divider covering 700 MHz to 4 GHz. The unique circuit structure ensures a smooth roll-down beyond 4 GHz to account for frequency drifting near the band edge. Aluminum enclosure measures 7.3" wide x 4.35" deep x 0.75" high, allowing two units to be placed side-by-side in a 19" rack.

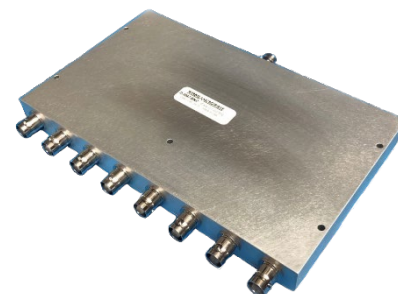


Photo is representative.

Specification	Min.	Typ.	Max.	Units
Frequency	700		4,000	MHz
Impedance		50		Ohm
Return Loss (Port S)	12	15		dB
Return Loss (Port 1-8)	14	20		dB
Insertion Loss (Above theoretical 9.03 dB)		1.5	2.0	dB
Isolation	17	22		dB
Amplitude Balance		0.3	0.8	dB
Phase Balance		6	12	Deg
Input Power (CW) ¹			30	Watts

Mechanical

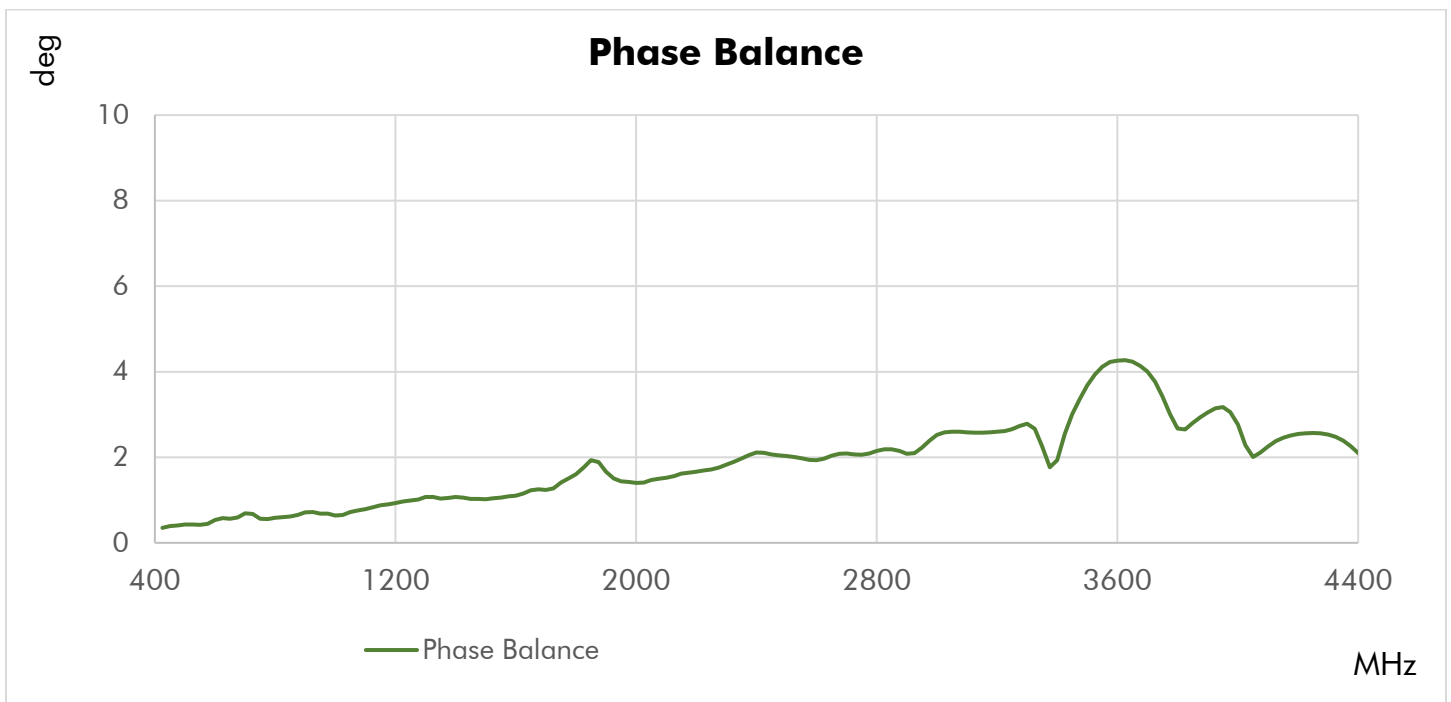
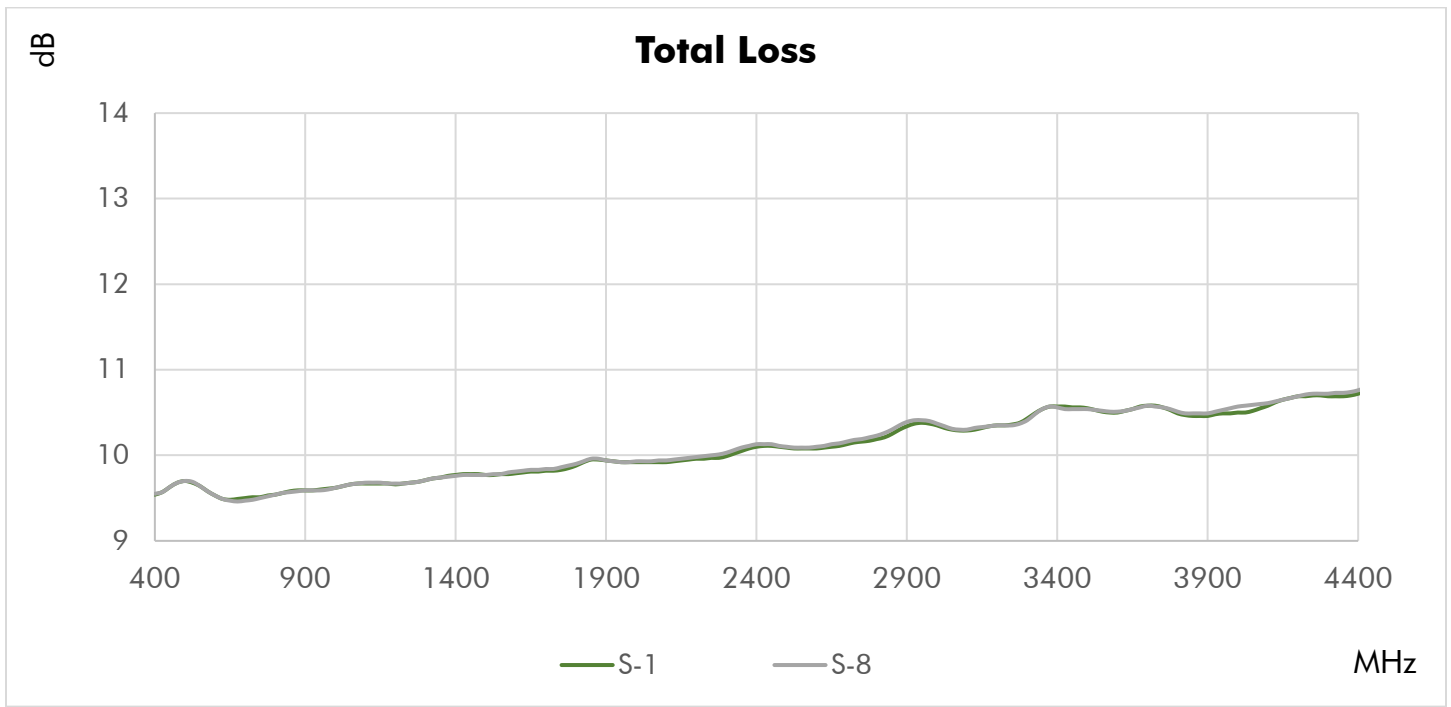
Connector Interface	BNC-Female
Operating Temperature ²	-40 to +85 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	13 oz (370 g)
Humidity	10-90% non-condensing
Environment	Indoors Use Only
CAGE Code	78YZ0

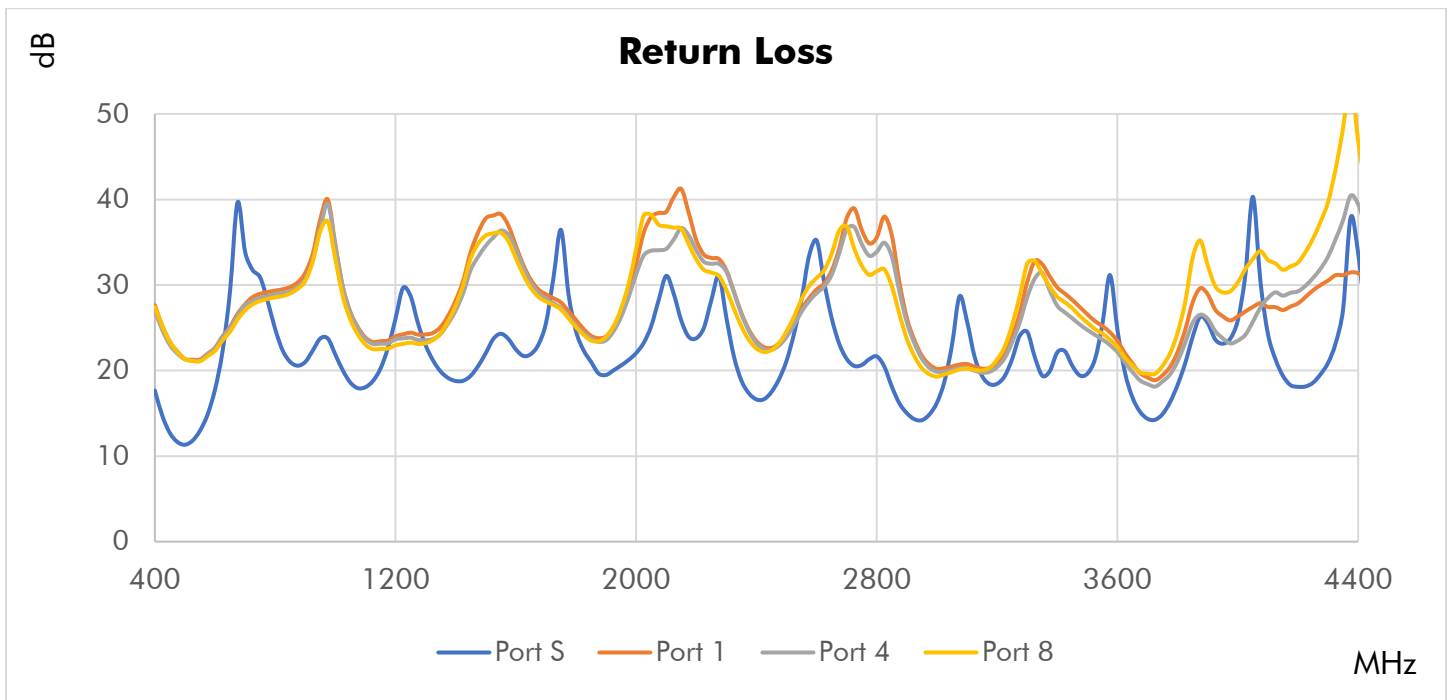
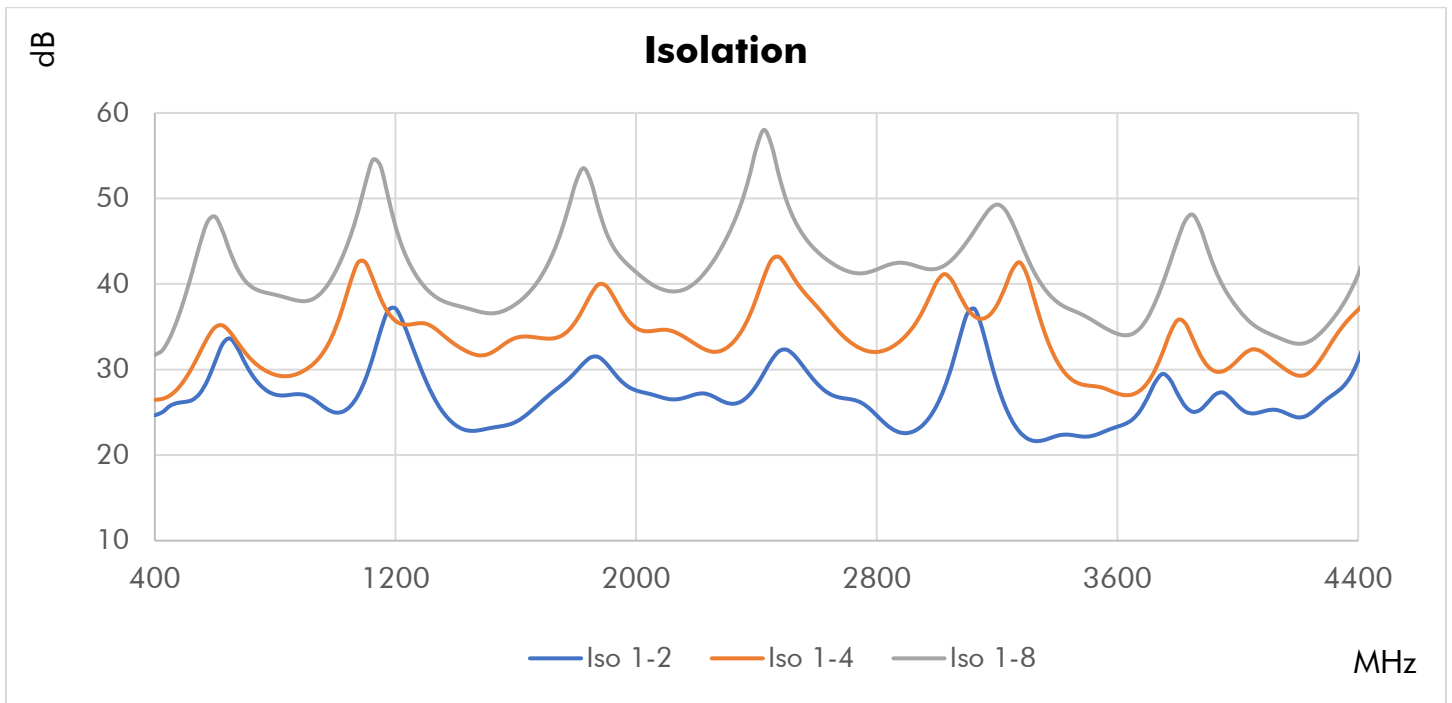
Materials

RoHS Compliant ³	Yes
REACH Compliant	Yes
Enclosure	Aluminum
Connectors	Brass, Tri-Alloy Plating
Contacts	Be Cu, Gold Plating
Insulators	PTFE
Finish	Clear Chem Film

1. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
2. Electrical specification at +25 °C.
3. To the best of our knowledge at time of publication.

Typical Performance at +25 °C

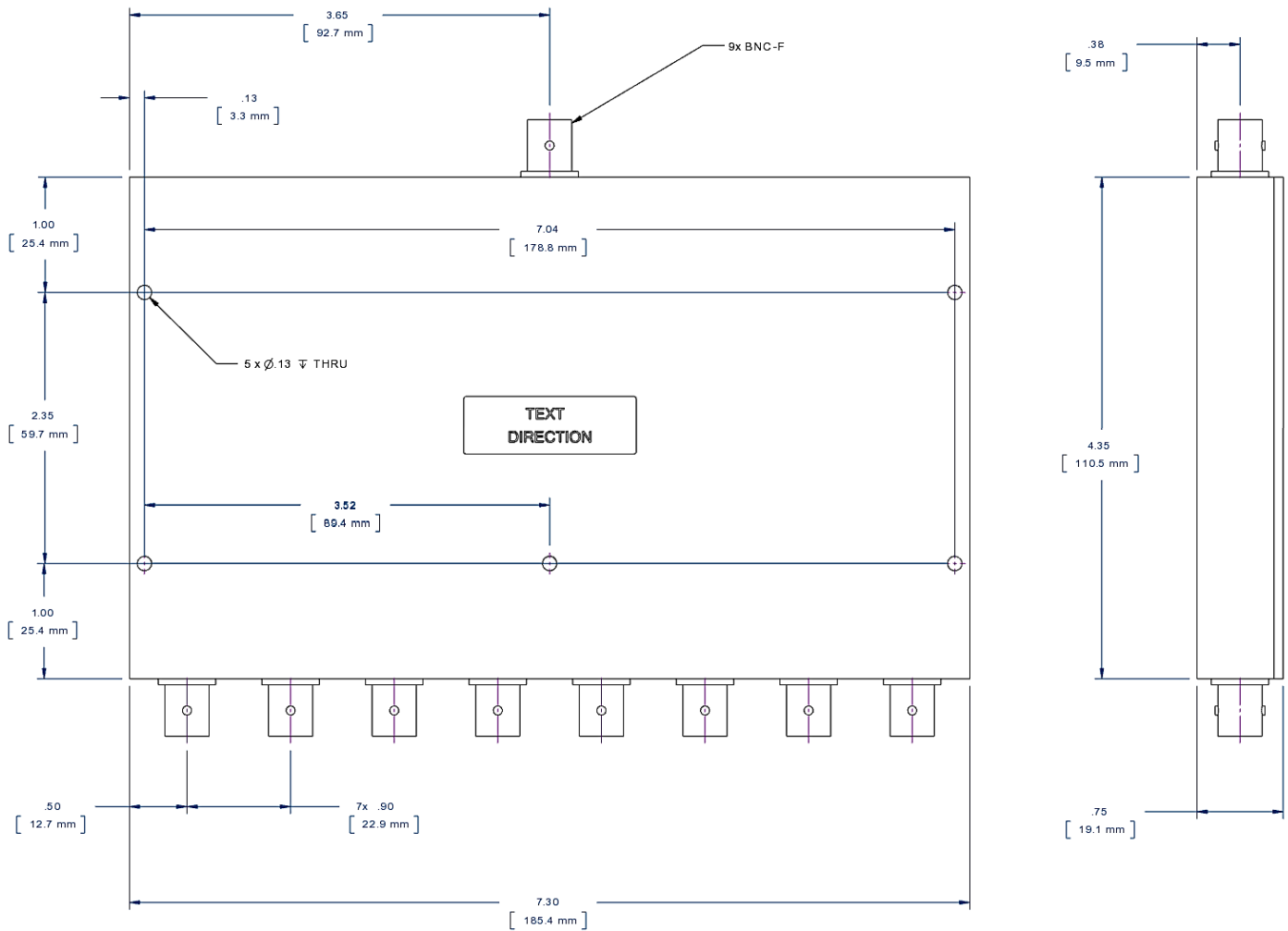




Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB) 1-2
	Port S	Port 1	Port 2	S-1	S-2	
500						
1000						
1500						
2000						
2500						
3000						
3500						
4000						
4500						
5000						
5500						
6000						
6500						
7000						
7500						
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Outline Dimensions



Outline drawing: OL-8047

Dimensions are in inches, [mm] shown for convenience.

Tolerances on 2-pl decimals: $\pm .03$. 3-pl decimals: $\pm .015$.

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or documentation of the part, in order to implement improvements. Werbel Microwave LLC reserves the right to make such changes as required without notice. Unless otherwise stated, all specifications and dimensions are nominal. Werbel Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Werbel Microwave LLC does not assume any liability arising out of the use of any part of documentation. This document gives only a description of the product(s) and shall not form part of any contract. Please contact a Werbel Microwave LLC Applications Engineer for the most current specification drawing.