

Wideband Power Divider 4-way BNC Female from 700 MHz to 4 GHz

## 4-way BNC Power Divider from 700 MHz to 4 GHz

## D-4047-BNC

### Description

Model D-4047-BNC from Werbel Microwave is a 4-way power splitter covering the continuous bandwidth of 700 MHz to 4 GHz. It has low insertion loss and excellent VSWR performance. The device is RoHS compliant.

Test data serialization is available. Consult a Werbel Microwave applications engineer today for your specific requirements.



Specification	Min	Typ.	Max	Units
Frequency	0.7		6	GHz
Impedance		50		Ohm
VSWR (common port)		1.4	1.6	:1
VSWR (split ports)		1.3	1.5	:1
Insertion Loss (above theoretical at highest frequency)		1.2	1.5	dB
Isolation	18	22		dB
Amplitude Balance		0.3	0.5	dB
Power Handling as Splitter into 1.2:1 max load VSWR			30	Watts (CW)

### Mechanical

Connector Interface	BNC-Female
Operating Temperature*	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	6 oz (170 g)
Humidity	10-90% non-condensing
Environment	Indoor use only

### Materials

#### RoHS Compliant

Enclosure	Aluminum
Connectors	Brass, Tri-Alloy Plated
Contacts	Be Cu, Gold Plated
Insulators	PTFE
Finish	Clear Chem Film

\* Design to meet based on materials. Production-tested at +25 °C. External heatsink and convection cooling recommended to maintain body temperature below +50 °C.



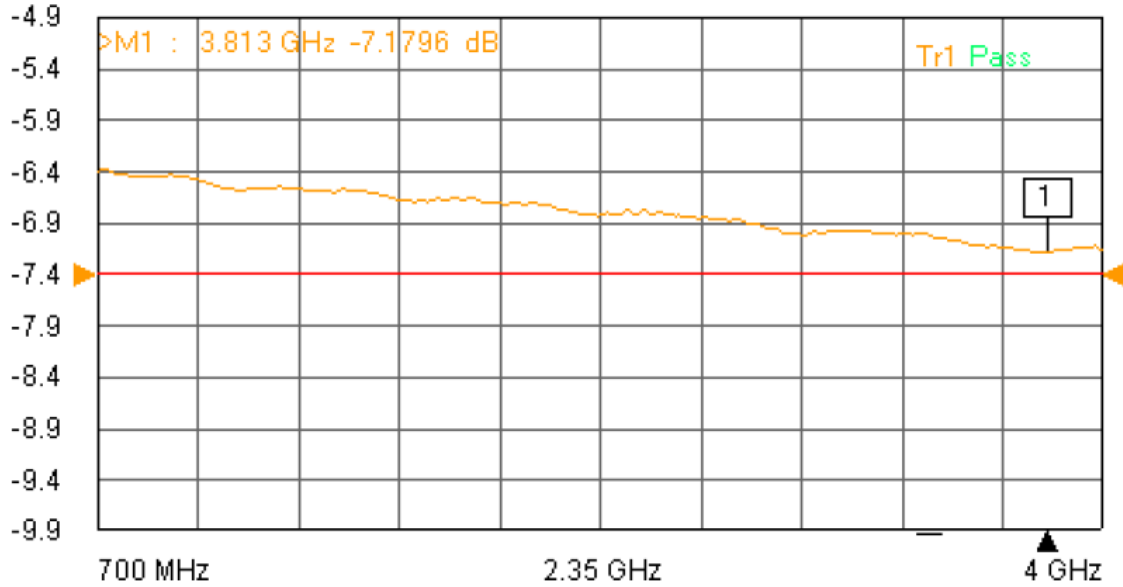
**MADE IN USA**

**ISO 9001:2015**

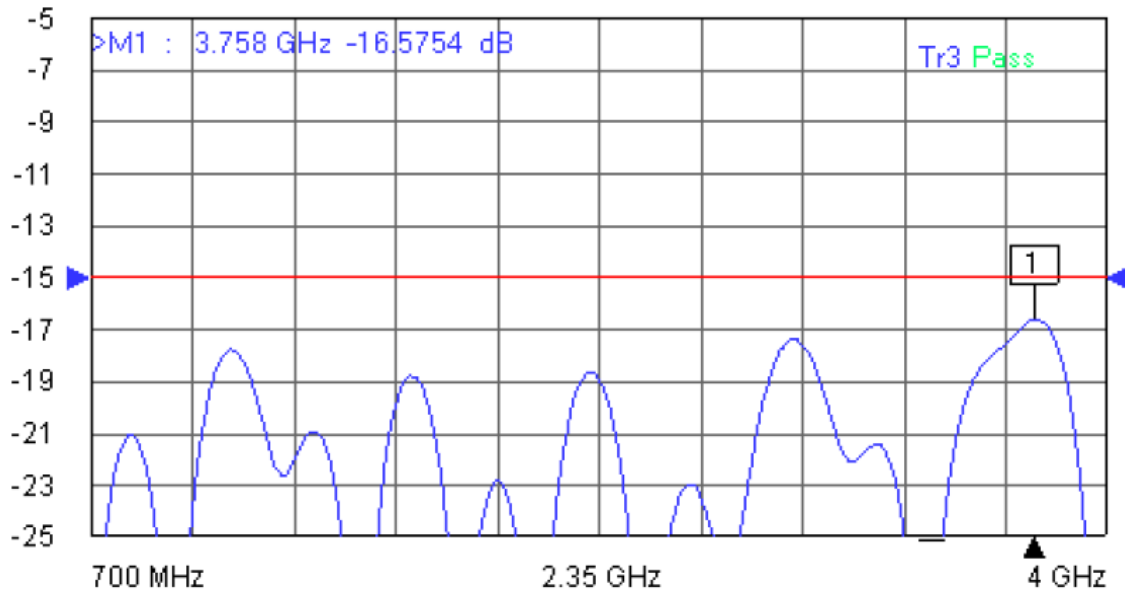
**Certified Company**

## Typical Performance at +25 °C

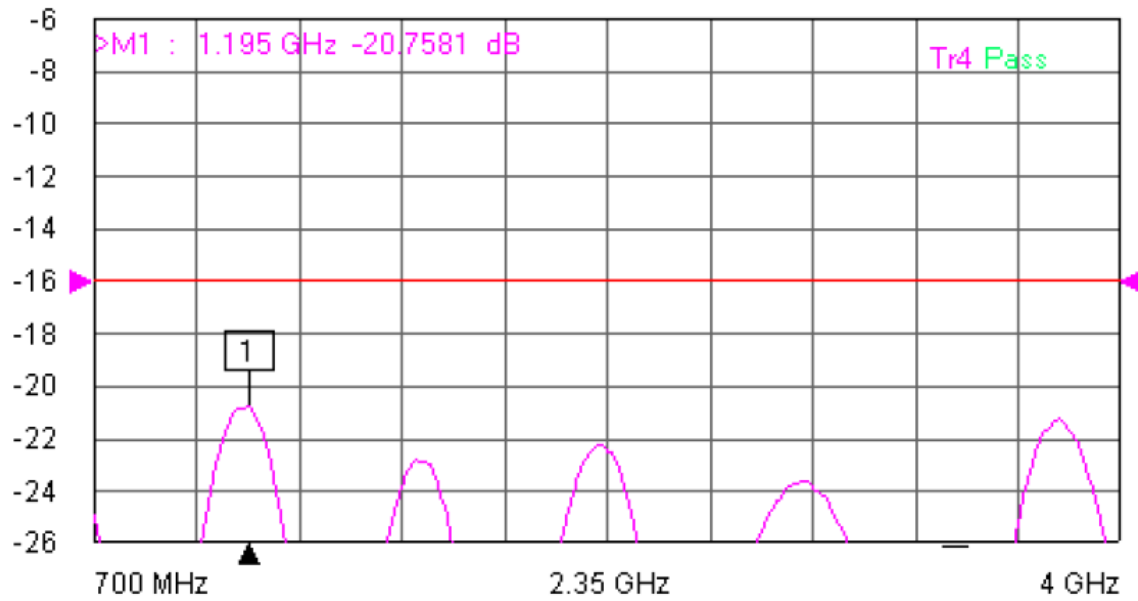
### Insertion Loss



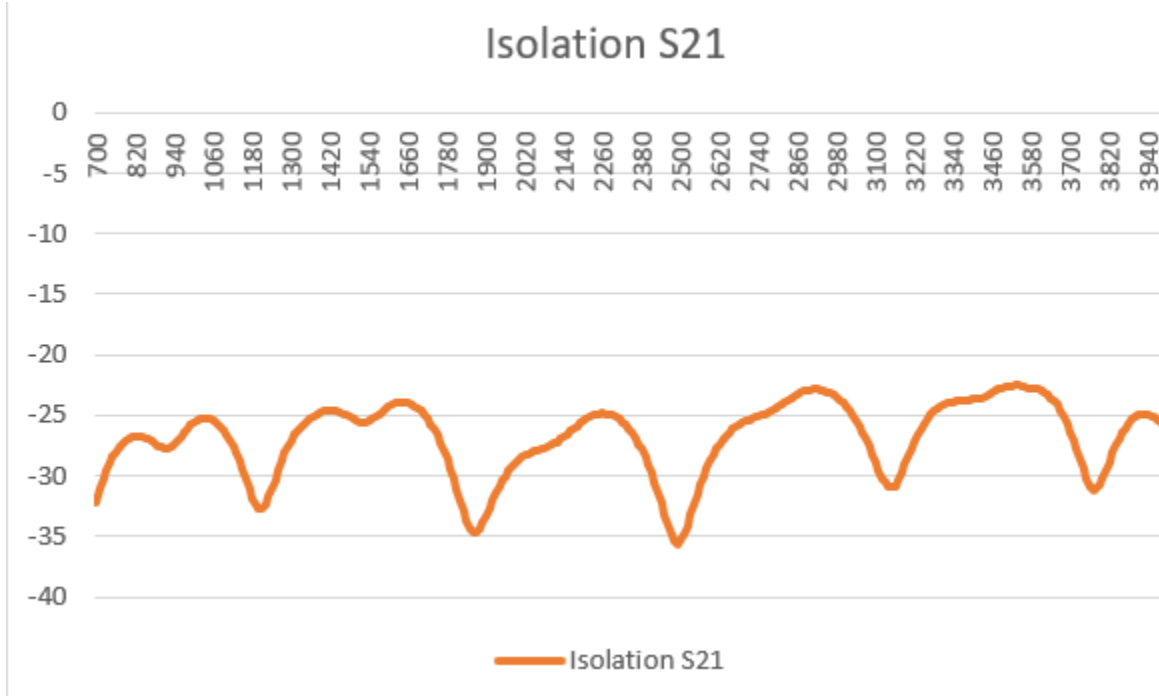
### Return Loss Input



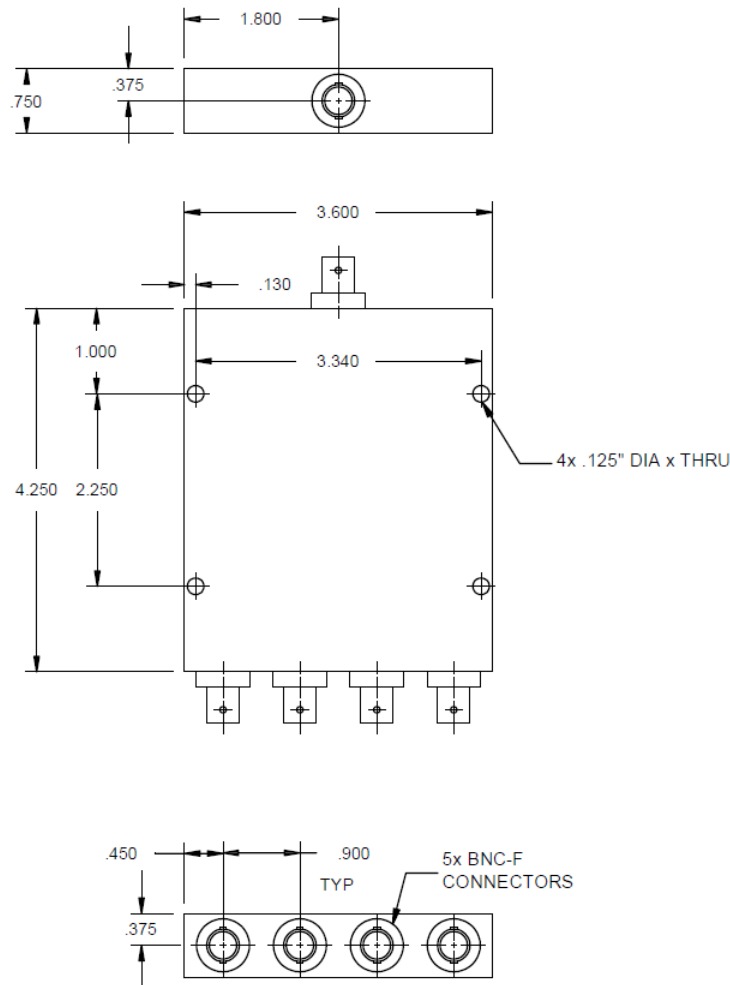
## Return Loss Output



## Isolation



## Outline Dimensions



Outline drawing: OL-4047-BNC

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.

### REVISION HISTORY

REVISION	DATE	DESCRIPTION	APPROVED
3/14/2021	3/14/2021	Preliminary release.	EW
3/15/2021	3/15/2021	First article. Removed phase spec. Removed preliminary designation.	EW
OR	6/16/2021	Release as standard product in proper datasheet format.	EW
A	12/16/2021	Updated product photo to show label.	EW