

Coaxial

# Power Splitter/Combiner

## ZAPD-162-75+

2 Way-0° 75Ω 600 to 1600 MHz



### Maximum Ratings

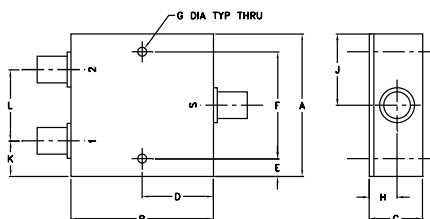
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

### Coaxial Connections

SUMPORT	S
PORT 1	1
PORT 2	2

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.00	2.00	.75	1.00	.13	1.750	.125
50.80	50.80	19.05	25.40	3.30	44.45	3.18
H	J	K	L			wt
.39	1.00	.50	1.00			grams
9.91	25.40	12.70	25.40			170.0

### Features

- very wide bandwidth, 600-1600 MHz
- low insertion loss, 0.3 dB typ.
- good isolation, 32 dB typ.
- excellent output VSWR, 1.25:1 typ.
- excellent output VSWR, 1.20:1 typ.

### Applications

- cable TV
- ISM

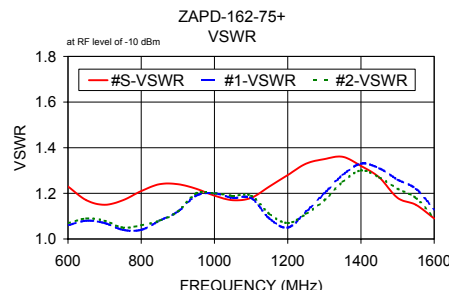
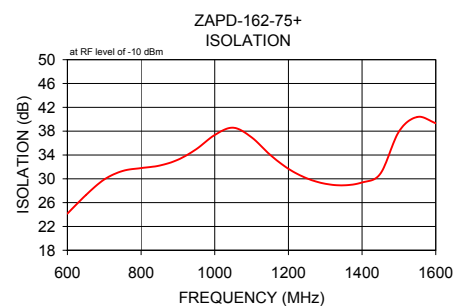
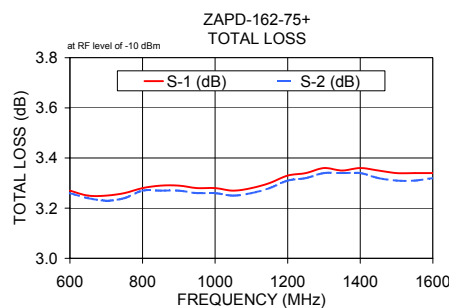
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)					
	Typ.	Min.	Typ.	Max.			S		OUT			
f <sub>c</sub> -f <sub>u</sub>					Max.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
600-1600	32	20	0.3	0.7	2	0.3	1.25	1.6	1.2	1.5		

### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
600.00	3.27	3.26	0.02	24.15	0.05	1.23	1.06	1.07
700.00	3.25	3.23	0.02	29.89	0.13	1.15	1.07	1.08
800.00	3.28	3.27	0.01	31.80	0.14	1.21	1.04	1.06
900.00	3.29	3.27	0.02	33.20	0.18	1.24	1.12	1.12
1000.00	3.28	3.26	0.02	37.35	0.23	1.19	1.20	1.20
1050.00	3.27	3.25	0.02	38.58	0.21	1.17	1.18	1.19
1100.00	3.28	3.26	0.02	36.96	0.18	1.18	1.18	1.19
1150.00	3.30	3.28	0.02	34.05	0.27	1.23	1.09	1.11
1200.00	3.33	3.31	0.02	31.68	0.30	1.28	1.05	1.07
1300.00	3.36	3.34	0.02	29.17	0.34	1.35	1.20	1.17
1350.00	3.35	3.34	0.01	28.91	0.30	1.36	1.28	1.25
1400.00	3.36	3.34	0.02	29.38	0.32	1.32	1.33	1.30
1500.00	3.34	3.31	0.03	37.92	0.37	1.18	1.26	1.22
1550.00	3.34	3.31	0.03	40.38	0.39	1.15	1.22	1.18
1600.00	3.34	3.32	0.03	39.34	0.41	1.09	1.13	1.09

1. Total Loss = Insertion Loss + 3dB splitter loss.



### electrical schematic



**Mini-Circuits®**  
 ISO 9001 ISO 14001 AS 9100 CERTIFIED  
 IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine [www.minicircuits.com](http://www.minicircuits.com) Provides ACTUAL Data Instantly at [minicircuits.com](http://www.minicircuits.com)

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp).

REV. A  
 M127604  
 ED-11549/2  
 ZAPD-162-75+  
 LC/TD/CP/AM  
 100614