

Coaxial

# Power Splitter/Combiner

## ZSC-2-1-75+

2 Way-0° 75Ω 0.25 to 300 MHz



CASE STYLE: M22

### Maximum Ratings

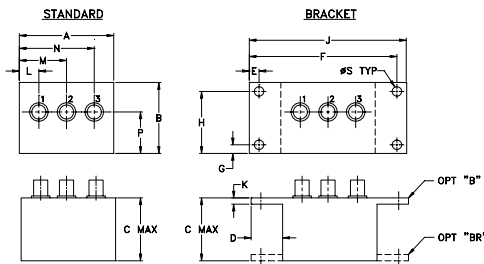
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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

### Coaxial Connections

SUM PORT	2
PORT 1	1
PORT 2	3

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
2.25	1.38	1.24	.50	.150	3.100	.138	1.238
57.15	35.05	31.50	12.70	3.81	78.74	3.51	31.45

J	K	L	M	N	P	S	wt
3.25	.10	.40	1.15	1.86	.64	.150	grams
82.55	2.54	10.16	29.21	47.24	16.26	3.81	74.0

### Features

- low insertion loss, 0.4 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.2 deg. typ.
- excellent VSWR, 1.1:1 typ.
- rugged shielded case

### Applications

- HF/VHF
- communications systems
- instrumentation

Connectors	Model	Price	Qty.
BNC	ZSC-2-1-75+	\$49.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(1+)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

### Electrical Specifications

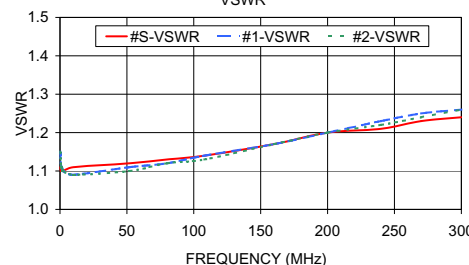
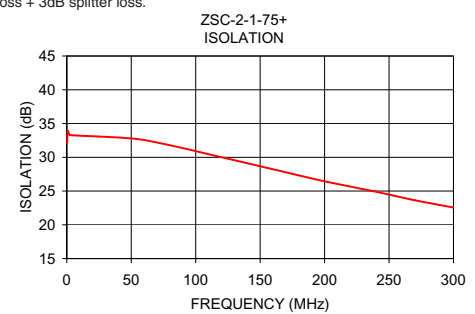
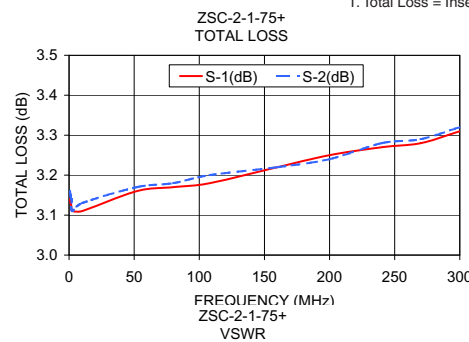
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
$f_c - f_u$	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.25-300	20	15	30	20	20	15	0.4	0.75	0.4	0.75	0.4	1.0	2	3	5	0.15	0.2	0.3

L = low range [ $f_l$  to  $10 f_l$ ] M = mid range [ $10 f_l$  to  $f_u/2$ ] U = upper range [ $f_u/2$  to  $f_u$ ]

### 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						
0.25	3.14	3.16	0.02	32.09	0.00	1.11	1.15	1.15
0.65	3.14	3.16	0.02	33.92	0.00	1.10	1.12	1.12
1.05	3.13	3.15	0.02	33.78	0.07	1.10	1.11	1.11
1.45	3.13	3.14	0.01	33.56	0.09	1.10	1.11	1.11
2.05	3.11	3.14	0.03	33.37	0.03	1.10	1.10	1.10
2.38	3.11	3.11	0.00	33.29	0.03	1.10	1.10	1.10
10.00	3.11	3.13	0.02	33.20	0.02	1.11	1.09	1.09
52.00	3.16	3.17	0.01	32.76	0.15	1.12	1.11	1.10
80.00	3.17	3.18	0.01	31.79	0.04	1.13	1.12	1.12
108.00	3.18	3.20	0.01	30.55	0.12	1.14	1.14	1.13
160.00	3.22	3.22	0.01	28.23	0.02	1.17	1.17	1.17
200.00	3.25	3.24	0.01	26.45	0.11	1.20	1.20	1.20
240.00	3.27	3.28	0.01	24.90	0.12	1.21	1.23	1.22
270.00	3.28	3.29	0.02	23.64	0.16	1.23	1.25	1.24
300.00	3.31	3.32	0.01	22.56	0.24	1.24	1.26	1.26

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



### electrical schematic



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

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REV. B  
M127604  
ZSC-2-1-75+  
HY/TD/CP  
100615