

Coaxial

# Power Splitter/Combiner

## ZSC-2-2-75+

2 Way-0° 75Ω 0.002 to 60 MHz



CASE STYLE: M22

### Maximum Ratings

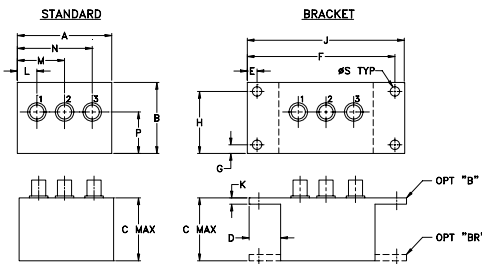
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

At low range frequency band ( $f_L$  to  $10 f_L$ ), linearly derate maximum input power by 13 dB.

### 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, 0.3 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.2 deg. typ.
- rugged shielded case

### Applications

- HF
- amateur radio

Connectors	Model	Price	Qty.
BNC	ZSC-2-2-75+	\$53.95	(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.

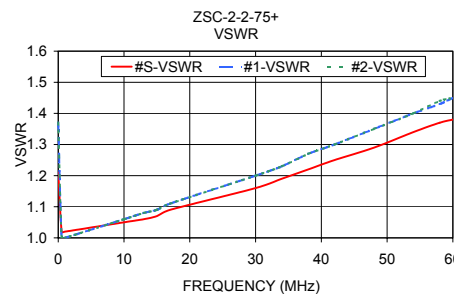
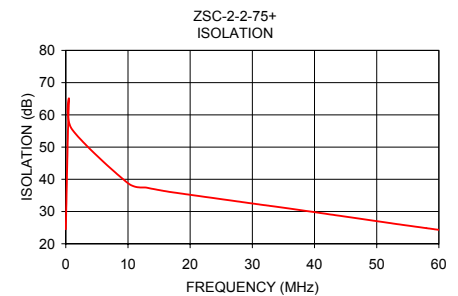
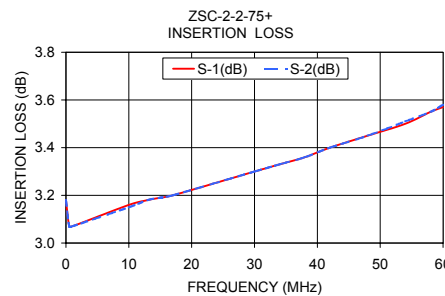
### Electrical Specifications

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	
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	
$f_L$ - $f_U$																			
0.002-60	25	20	30	20	27	20	0.3	0.6	0.3	0.6	0.6	1.0	2	3	4	0.15	0.25	0.30	

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  $f_U$ ]  
 \* Isolation specified to -20°C from 0.002 to 0.004 MHz. From 0.002 to 0.006 MHz, isolation 14 dB min.

### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.002	3.18	3.18	0.00	24.51	0.08	1.21	1.37	1.37
0.510	3.07	3.07	0.00	64.03	0.00	1.02	1.00	1.00
1.000	3.07	3.07	0.00	55.50	0.00	1.02	1.00	1.00
10.000	3.16	3.15	0.00	38.79	0.00	1.05	1.06	1.06
13.000	3.18	3.18	0.00	37.41	0.00	1.06	1.08	1.08
15.000	3.19	3.19	0.00	36.66	0.01	1.07	1.09	1.09
17.000	3.20	3.20	0.00	36.00	0.01	1.09	1.11	1.11
30.000	3.30	3.30	0.00	32.49	0.01	1.16	1.20	1.20
34.000	3.33	3.33	0.00	31.45	0.01	1.19	1.23	1.23
38.000	3.36	3.36	0.00	30.37	0.00	1.22	1.27	1.27
42.000	3.40	3.40	0.00	29.26	0.00	1.25	1.30	1.30
48.000	3.45	3.45	0.00	27.58	0.00	1.29	1.35	1.35
54.000	3.50	3.51	0.01	25.91	0.01	1.34	1.40	1.40
58.000	3.55	3.55	0.01	24.84	0.02	1.37	1.43	1.44
60.000	3.57	3.58	0.01	24.31	0.02	1.38	1.45	1.45



### electrical schematic



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IF/RF MICROWAVE COMPONENTS

REV. B  
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