

Coaxial

Power Splitter/Combiner

ZSC-2-2-75

2 Way-0° 75Ω 0.002 to 60 MHz

Maximum Ratings

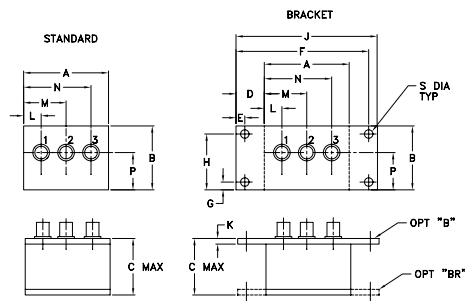
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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

Coaxial Connections

SUMPORT	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



CASE STYLE: M22

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+)

Splitter Electrical Specifications

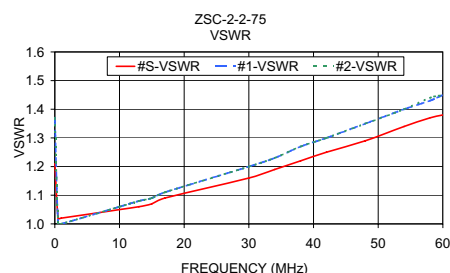
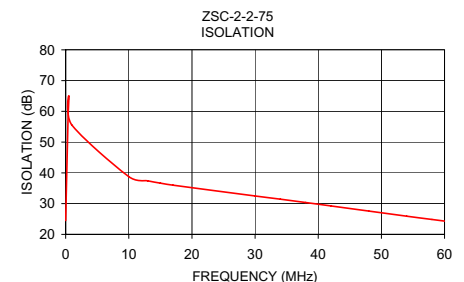
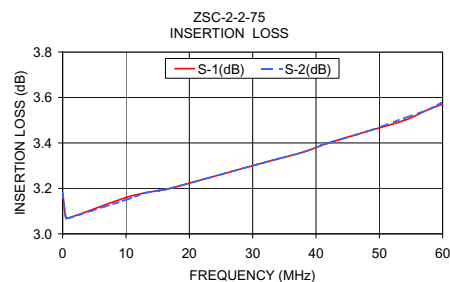
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB)* ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.

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]

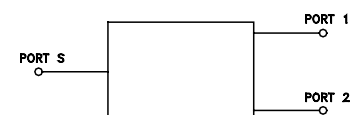
* Insertion loss specified to -20°C from 0.002 to 0.004 MHz. From 2 to 6 KHz, isolation 14 dB min.

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



Mini-Circuits®

INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

REV. A
M976426
ZSC-2-2-75
HY/TD/CP
060825