Coaxial

Power Splitter/Combiner

ZSC-2-2-75+

2 Way-0° 75Ω 0.002 to 60 MHz

CASE STYLE: M22

Connectors	Model
BNC	ZSC-2-2-75+
BRACKET (OPTION "B")	
BRACKET (OPTION "BR")	

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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.

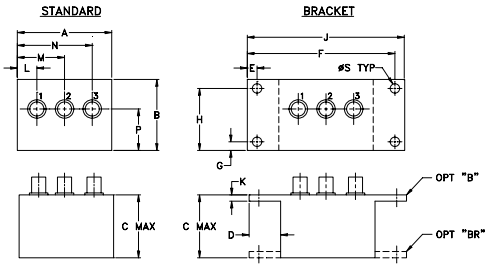
At low range frequency band (f_L to 10 f_L), linearly derate maximum input power by 13 dB.

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, 0.3 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

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_L-f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
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

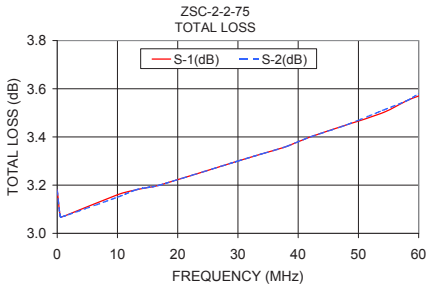
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

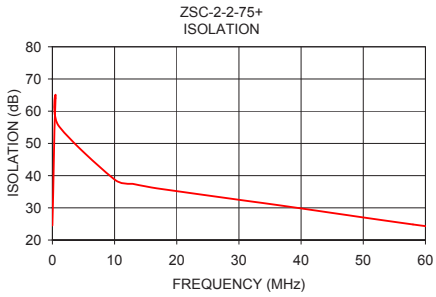
* Isolation specified to -20°C from 0.002 to 0.004 MHz. From 0.002 to 0.0006 MHz, isolation 14 dB min.

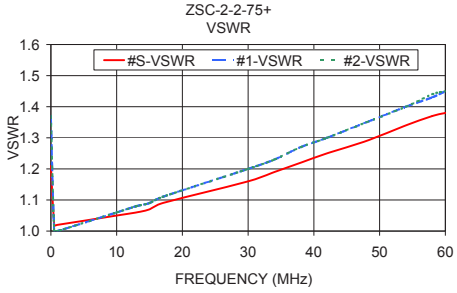
Typical Performance Data

Frequency (MHz)	Total Loss[1] (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

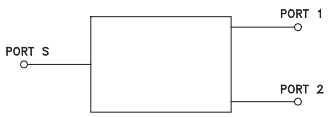
1. Total Loss = Insertion Loss + 3dB splitter loss.







electrical schematic



Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

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