

Coaxial Power Splitter/Combiner

ZSC-2-1-75+ ZSC-2-1-75

2 Way-0° 75Ω 0.25 to 300 MHz



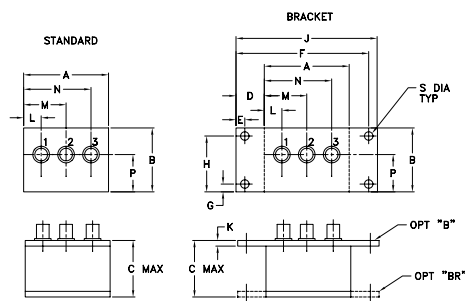
Maximum Ratings

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.

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, 0.4 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

CASE STYLE: M22

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

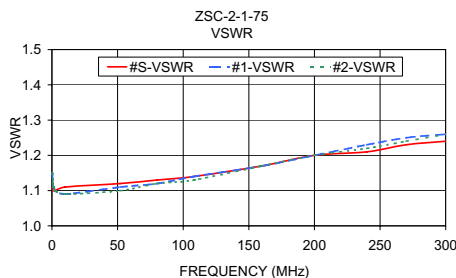
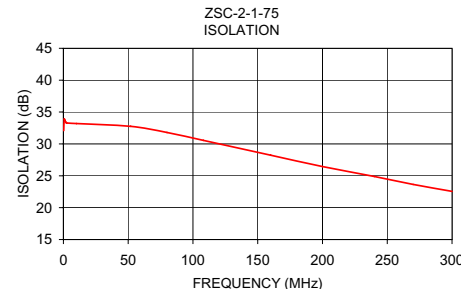
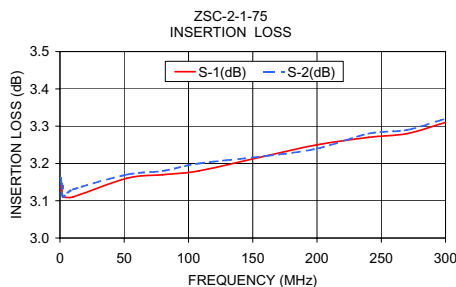
Splitter Electrical Specifications

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	L	M	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)	Insertion Loss (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



electrical schematic

