Coaxial

Power Splitter/Combiner

ZSC-4-2+
ZSC-4-2

4 Way-0° 50Ω 0.002 to 20 MHz

CASE STYLE: N27

Connectors	Model	Price	Qty.
BNC	ZSC-4-2(+)	$74.95	(1-9)
BRACKET(OPTION "B")		$5.00	(1+)
BRACKET(OPTION "BR")		$1.50	(1+)

+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	0.250W 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	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

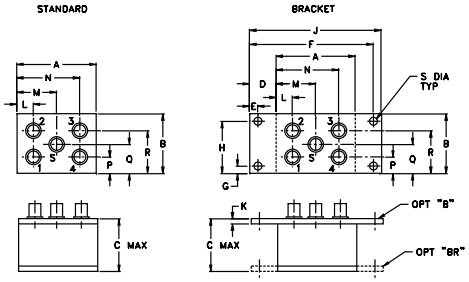
Features

- high isolation, 33 dB typ.
- rugged shielded case

Applications

- HF
- amateur radio

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	J
2.25	1.38	1.24	.50	.150	3.100	.138	1.238	3.25
57.15	35.05	31.50	12.70	3.81	78.74	3.51	31.45	82.55

K	L	M	N	P	Q	R	S	wt
.10	.48	1.13	1.78	.36	.69	1.01	.150	grams
2.54	12.19	28.70	45.21	9.14	17.53	25.65	3.81	92.0

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 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.
0.002-20	30	20	33	25	33	25	0.45	0.75	0.3	0.5	0.7	1.0	4	6	8	0.15	0.20	0.25

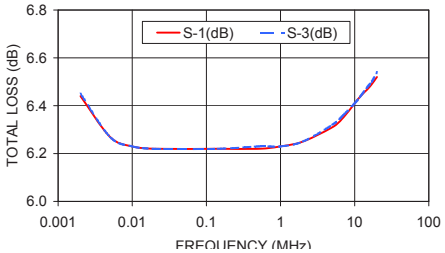
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

Typical Performance Data

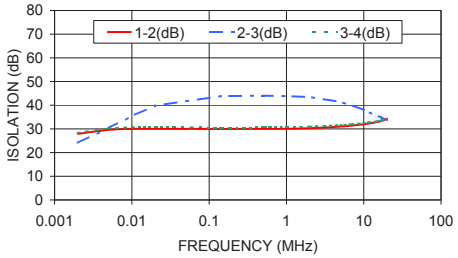
Freq. (MHz)	Total Loss[1] (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
0.002	6.44	6.44	6.45	6.45	0.02	27.93	24.11	28.25	0.19	1.56	1.95	1.95	1.95	1.95
0.005	6.27	6.26	6.27	6.28	0.02	29.59	30.37	30.18	0.20	1.35	1.38	1.38	1.38	1.38
0.010	6.23	6.23	6.23	6.23	0.00	29.99	35.42	30.62	0.07	1.31	1.22	1.22	1.22	1.22
0.020	6.22	6.22	6.22	6.22	0.00	30.05	39.79	30.68	0.04	1.29	1.15	1.15	1.16	1.16
0.142	6.22	6.22	6.22	6.22	0.00	29.99	43.85	30.60	0.01	1.29	1.13	1.13	1.13	1.13
0.510	6.22	6.22	6.23	6.23	0.00	30.03	44.02	30.63	0.01	1.29	1.13	1.13	1.13	1.13
1.000	6.23	6.23	6.23	6.23	0.00	30.08	43.85	30.70	0.01	1.29	1.13	1.13	1.13	1.13
2.000	6.25	6.25	6.25	6.25	0.00	30.28	43.48	30.89	0.05	1.30	1.13	1.13	1.13	1.13
5.000	6.31	6.32	6.32	6.32	0.01	30.97	41.40	31.57	0.10	1.31	1.12	1.12	1.12	1.12
7.000	6.35	6.36	6.36	6.36	0.01	31.39	39.96	31.93	0.13	1.32	1.11	1.11	1.11	1.11
10.000	6.41	6.41	6.41	6.41	0.01	31.96	38.03	32.42	0.17	1.32	1.10	1.10	1.10	1.10
12.000	6.44	6.43	6.44	6.44	0.01	32.32	36.92	32.73	0.21	1.32	1.09	1.09	1.09	1.09
15.000	6.47	6.47	6.48	6.48	0.01	32.92	35.57	33.21	0.26	1.31	1.08	1.08	1.08	1.08
17.000	6.49	6.49	6.50	6.51	0.02	33.38	34.77	33.59	0.30	1.30	1.07	1.07	1.08	1.08
20.000	6.52	6.52	6.54	6.54	0.02	34.22	33.73	34.31	0.35	1.28	1.06	1.06	1.07	1.07

1. Total Loss = Insertion Loss + 6dB splitter loss.

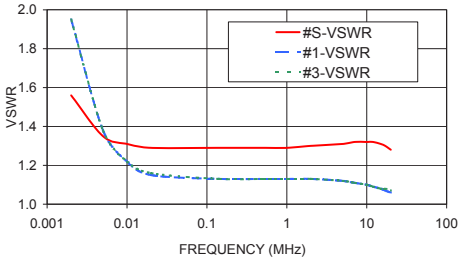
ZSC-4-2
TOTAL LOSS



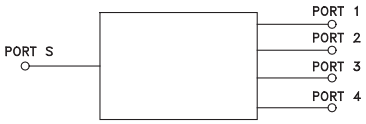
ZSC-4-2
ISOLATION



ZSC-4-2
VSWR



electrical schematic



REV. B
M139254
ZFSC-4-2
HY/TD/CP
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