

Coaxial Power Splitter/Combiner

ZSC-4-2

4 Way-0° 50Ω 0.002 to 20 MHz



Maximum Ratings

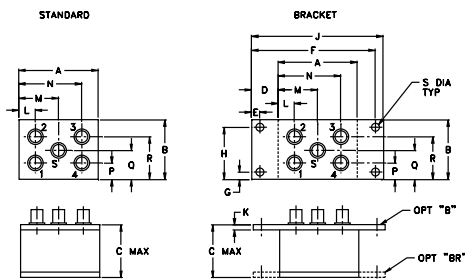
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.250W max.

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

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

Features

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

Applications

- HF
- amateur radio

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+)

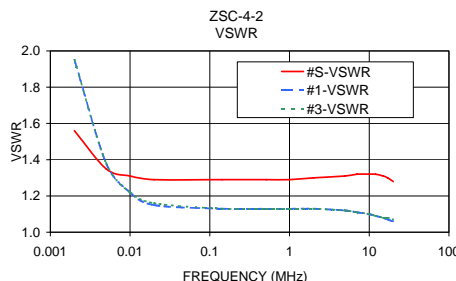
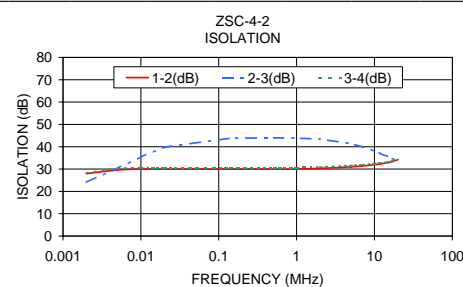
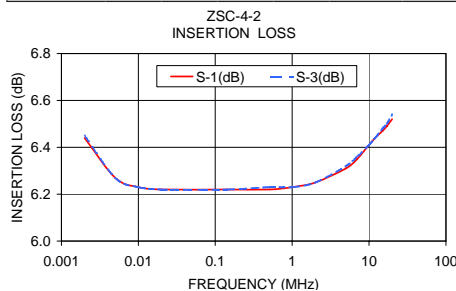
Electrical Specifications

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
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f_L - f_U																		
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)	Insertion Loss (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



electrical schematic



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