

Coaxial

Power Splitter/Combiner

ZSC-2-2+

2 Way-0° 50Ω 0.002 to 60 MHz

Maximum Ratings

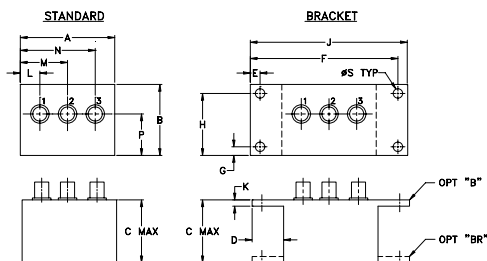
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

At low range frequency band (f_L to $10 f_L$), linearly derate maximum input power by 13 dB.
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.
- excellent VSWR, 1.1:1 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	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f_L - f_U																		
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

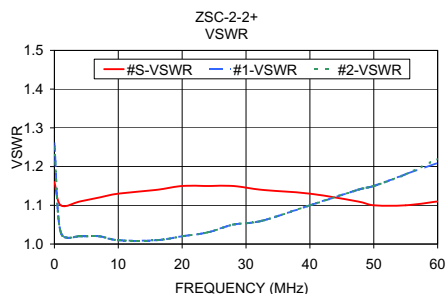
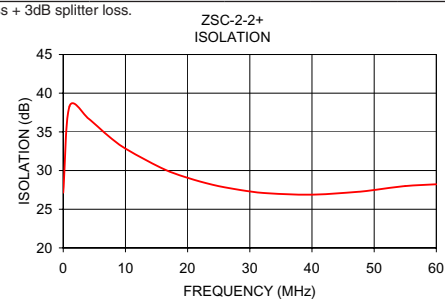
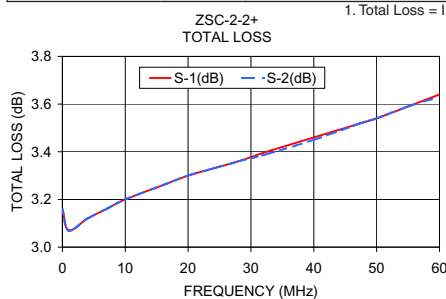
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

* Isolation specified to 0.006 MHz.

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	3.16	3.16	0.00	27.14	0.02	1.16	1.26	1.25
1.000	3.07	3.07	0.00	38.30	0.00	1.10	1.03	1.03
4.000	3.12	3.12	0.00	36.75	0.00	1.11	1.02	1.02
7.000	3.16	3.16	0.00	34.64	0.01	1.12	1.02	1.02
10.000	3.20	3.20	0.00	32.84	0.02	1.13	1.01	1.01
16.000	3.26	3.26	0.00	30.25	0.03	1.14	1.01	1.01
20.000	3.30	3.30	0.00	29.06	0.03	1.15	1.02	1.02
24.000	3.33	3.33	0.00	28.17	0.03	1.15	1.03	1.03
28.000	3.36	3.36	0.00	27.55	0.03	1.15	1.05	1.05
32.500	3.40	3.39	0.00	27.09	0.03	1.14	1.06	1.06
40.000	3.46	3.45	0.00	26.88	0.04	1.13	1.10	1.10
47.500	3.52	3.52	0.00	27.26	0.04	1.11	1.14	1.14
50.000	3.54	3.54	0.00	27.49	0.04	1.10	1.15	1.15
55.000	3.59	3.59	0.00	27.99	0.04	1.10	1.18	1.18
60.000	3.64	3.63	0.00	28.23	0.04	1.11	1.21	1.22

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



electrical schematic



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