

Coaxial Power Splitter/Combiner

ZSC-2-4+

2 Way-0° 50Ω 10 to 1000 MHz



Generic photo used for illustration purposes only

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.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	2
PORT 1	1
PORT 2	3

Features

- wideband, 10 to 1000 MHz
- low insertion loss, 0.5 dB typ.
- high isolation, 35 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- excellent VSWR, 1.15:1 typ.
- rugged shielded case

Applications

- VHF/UHF
- cellular
- communication systems

CASE STYLE: M22

Connectors	Model
BNC	ZSC-2-4+
BRACKET (OPTION "B")	BRACKET (OPTION "B")
BRACKET (OPTION "BR")	BRACKET (OPTION "BR")

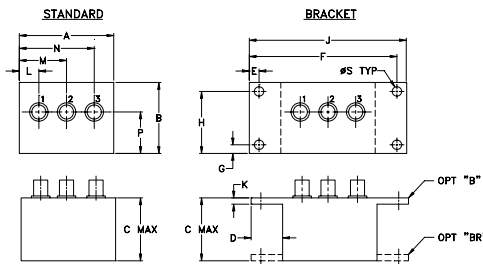
+RoHS Compliant

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

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.
f _c -f _u																		
10-1000	25	20	35	20	25	20	0.2	0.5	0.5	0.8	0.7	1.3	2	4	6	0.15	0.20	0.30

Outline Drawing



Outline Dimensions (inch/mm)

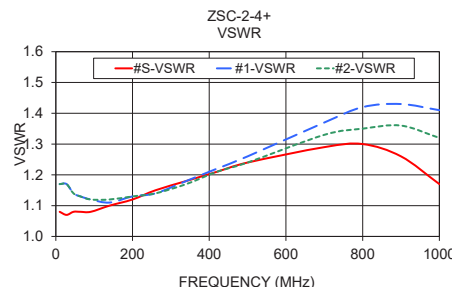
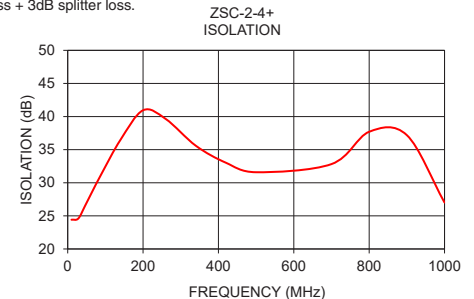
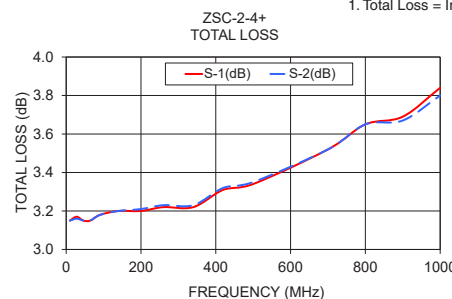
A	B	C	D	E	F	G	H
2.25	1.38	1.24	.50	.150	3.100	.138	1.238
57.15	35.05	31.50	12.70	3.81	78.74	3.51	31.45

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

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						
10.00	3.15	3.15	0.00	24.42	0.02	1.08	1.17	1.17
28.00	3.17	3.16	0.00	24.59	0.17	1.07	1.17	1.17
46.00	3.15	3.15	0.01	26.51	0.10	1.08	1.14	1.14
64.00	3.15	3.15	0.01	28.54	0.16	1.08	1.13	1.13
91.00	3.18	3.18	0.00	31.49	0.26	1.08	1.12	1.12
140.00	3.20	3.20	0.00	36.48	0.45	1.10	1.11	1.12
200.00	3.20	3.21	0.01	40.95	0.50	1.12	1.13	1.13
260.00	3.22	3.23	0.01	39.64	0.56	1.15	1.14	1.14
340.00	3.22	3.23	0.02	35.59	0.90	1.18	1.18	1.17
420.00	3.31	3.32	0.01	33.02	1.13	1.21	1.22	1.21
500.00	3.34	3.35	0.00	31.59	1.27	1.24	1.26	1.24
700.00	3.52	3.52	0.00	32.82	1.89	1.29	1.37	1.33
800.00	3.65	3.65	0.00	37.70	1.91	1.30	1.42	1.35
900.00	3.69	3.67	0.03	37.19	2.09	1.26	1.43	1.36
1000.00	3.84	3.80	0.04	27.01	2.06	1.17	1.41	1.32

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



electrical schematic



Notes

- 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.
- 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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