

Coaxial Power Splitter/Combiner

ZSC-4-1+

4 Way-0° 50Ω 0.1 to 200 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.
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

- wideband, 0.1 to 200 MHz
- high isolation, 30 dB typ.
- excellent output VSWR, 1.1:1 typ.
- rugged shielded case

Applications

- HF/VHF
- radio communication

CASE STYLE: N27
 Connectors Model
BNC ZSC-4-1+
BRACKET(OPTION "B")
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 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.
0.1-200	33	20	30	20	27	20	0.4	0.6	0.5	0.75	0.7	1.0	4	6	8	0.15	0.20	0.25

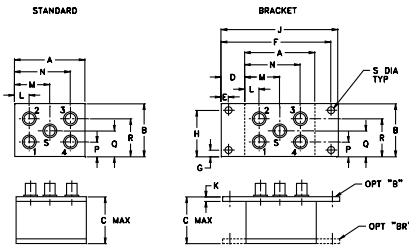
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

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						
0.10	6.19	6.18	6.15	6.15	0.04	29.23	32.04	29.48	0.63	1.26	1.38	1.38	1.36	1.35
0.50	6.21	6.21	6.21	6.20	0.01	29.33	44.74	29.62	0.08	1.20	1.23	1.23	1.23	1.22
1.00	6.21	6.19	6.21	6.20	0.02	29.18	47.10	29.53	0.12	1.19	1.24	1.24	1.24	1.23
52.00	6.29	6.30	6.30	6.30	0.01	29.38	42.51	29.07	0.39	1.22	1.18	1.17	1.18	1.17
100.00	6.32	6.31	6.35	6.35	0.04	28.68	39.46	27.80	0.79	1.18	1.13	1.12	1.14	1.14
110.00	6.36	6.35	6.39	6.38	0.04	28.76	39.23	27.78	0.80	1.17	1.12	1.11	1.13	1.13
120.00	6.39	6.37	6.43	6.42	0.06	28.89	39.08	27.76	1.04	1.16	1.11	1.10	1.12	1.12
130.00	6.41	6.40	6.46	6.46	0.06	29.18	39.15	27.81	1.03	1.15	1.10	1.09	1.11	1.11
140.00	6.42	6.40	6.47	6.46	0.07	29.55	39.13	28.03	1.02	1.14	1.09	1.09	1.11	1.10
150.00	6.41	6.40	6.46	6.46	0.07	30.07	39.41	28.28	1.23	1.12	1.09	1.08	1.10	1.10
160.00	6.40	6.39	6.48	6.49	0.10	30.75	39.93	28.62	1.18	1.11	1.09	1.08	1.10	1.10
170.00	6.42	6.40	6.48	6.50	0.10	31.60	40.55	29.08	1.34	1.10	1.10	1.09	1.10	1.11
180.00	6.46	6.44	6.55	6.55	0.11	32.71	41.60	29.58	1.24	1.09	1.10	1.10	1.11	1.11
190.00	6.52	6.51	6.61	6.62	0.11	34.07	43.07	30.17	1.38	1.08	1.11	1.11	1.11	1.11
200.00	6.54	6.53	6.62	6.65	0.13	35.66	44.95	30.69	1.62	1.09	1.12	1.12	1.12	1.12

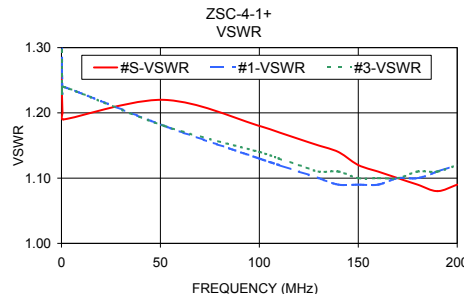
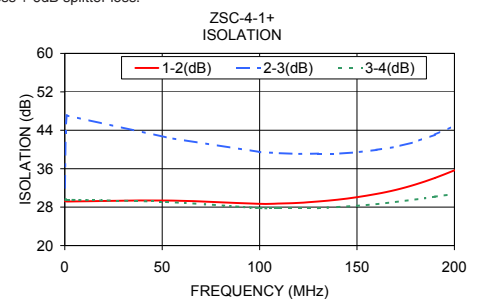
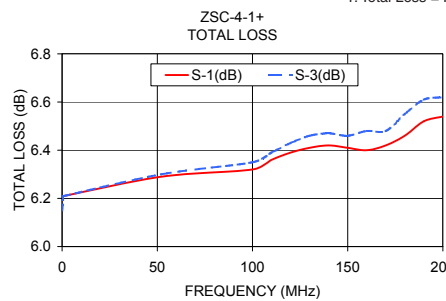
1. Total Loss = Insertion Loss + 6dB splitter loss.

Outline Drawing

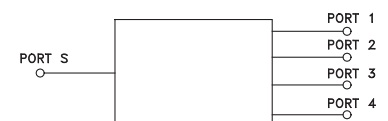


Outline Dimensions (inch/mm)

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 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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