

Coaxial

Power Splitter/Combiner

ZSC-4-3+

4 Way-0° 50Ω 0.25 to 250 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, 0.25 to 250 MHz
- high isolation, 30 dB typ.
- good VSWR, 1.20:1 typ.
- rugged shielded case

Applications

- HF/VHF
- amateur radio



Generic photo used for illustration purposes only

CASE STYLE: N27

Connectors Model _____
BNC ZSC-4-3+
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
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
$f_c - f_u$	33	20	30	20	27	20	0.4	0.7	0.5	0.75	0.7	1.2	4	6	10	0.15	0.20	0.25

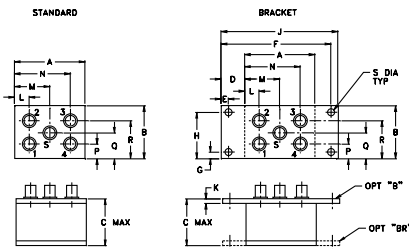
L = low range [f_l to $10 f_l$] M = mid range [$10 f_l$ to $f_u/2$] U = upper range [$f_u/2$ to f_u]

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4					
0.25	6.35	6.38	6.38	6.38	0.03	25.15	50.85	26.87	1.23	1.38	1.38	1.35	1.35
0.50	6.33	6.36	6.36	6.36	0.03	27.67	50.90	29.42	1.13	1.22	1.22	1.21	1.20
1.00	6.34	6.35	6.36	6.36	0.02	29.04	50.78	30.51	1.09	1.17	1.17	1.16	1.16
5.00	6.25	6.24	6.25	6.25	0.01	31.59	50.05	31.90	1.05	1.09	1.09	1.08	1.08
10.00	6.25	6.25	6.24	6.24	0.01	31.74	48.80	31.71	1.05	1.07	1.07	1.07	1.07
20.00	6.28	6.27	6.28	6.27	0.01	31.11	45.32	30.91	1.06	1.07	1.07	1.07	1.07
33.60	6.28	6.27	6.27	6.28	0.01	29.98	42.15	29.70	1.09	1.07	1.08	1.08	1.07
50.00	6.32	6.33	6.32	6.33	0.01	28.72	39.38	28.38	1.12	1.07	1.08	1.08	1.08
75.20	6.38	6.39	6.39	6.39	0.01	27.10	36.59	26.71	1.15	1.07	1.09	1.10	1.08
100.00	6.43	6.45	6.43	6.45	0.02	26.05	34.88	25.63	1.17	1.07	1.10	1.11	1.08
150.10	6.47	6.49	6.50	6.48	0.03	25.56	33.18	25.13	1.17	1.05	1.09	1.10	1.07
175.10	6.50	6.53	6.52	6.51	0.03	26.21	33.08	25.85	1.13	1.04	1.08	1.09	1.05
200.00	6.50	6.54	6.54	6.51	0.04	27.54	33.57	27.46	1.10	1.05	1.08	1.09	1.05
225.00	6.53	6.57	6.56	6.54	0.04	29.03	34.68	30.13	1.13	1.10	1.11	1.12	1.09
250.00	6.64	6.70	6.67	6.64	0.06	28.42	36.51	31.57	1.24	1.17	1.18	1.18	1.15

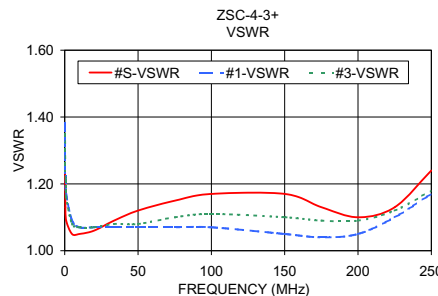
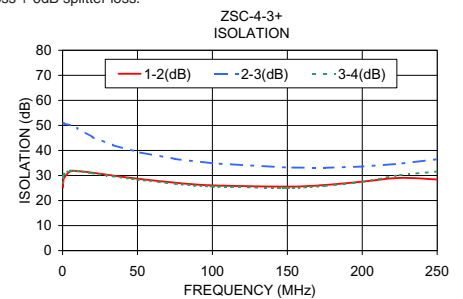
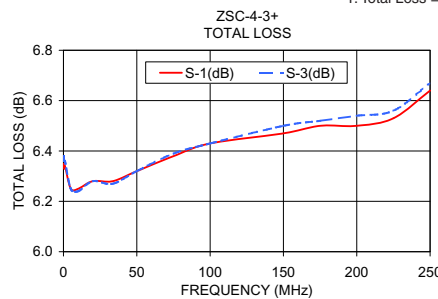
1. Total Loss = Insertion Loss + 6dB splitter loss.

Outline Drawing

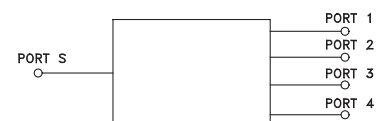


Outline Dimensions (inch/mm)

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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