

Coaxial

Power Splitter/Combiner

4 Way-0° 50Ω 0.25 to 250 MHz

ZSC-4-3+



CASE STYLE: N27

Connectors Model

BNC ZSC-4-3+

BRACKET(OPTION "B")

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+RoHS Compliant

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

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

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	
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.25-250	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

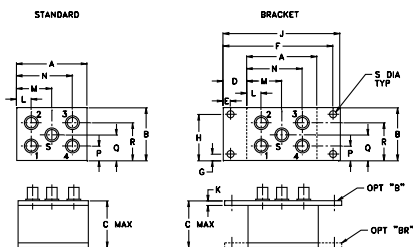
L = low range [f_L to 10 f_L] M = mid range [10 f_L to $f_U/2$] U = upper range [$f_U/2$ to f_U]

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

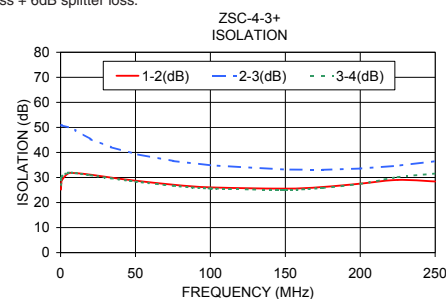
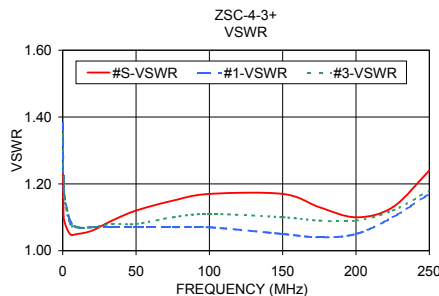
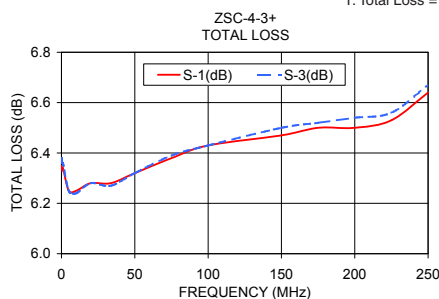
1. Total Loss = Insertion Loss + 6dB splitter loss.

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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