

# 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

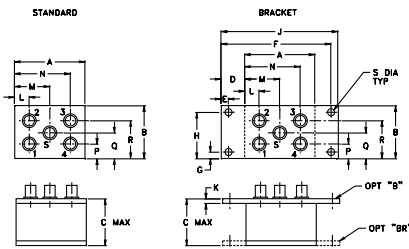
L = low range [ $f_L$  to  $10 f_L$ ] M = mid range [ $10 f_L$  to  $f_U/2$ ] U = upper range [ $f_U/2$  to  $f_U$ ]

### Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (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

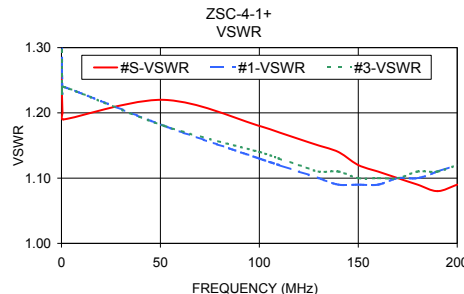
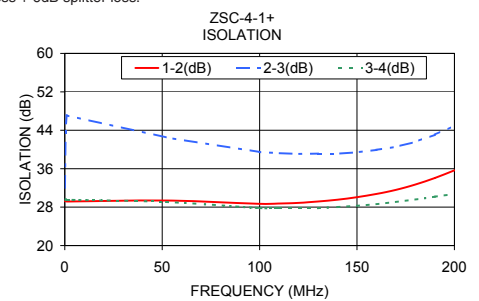
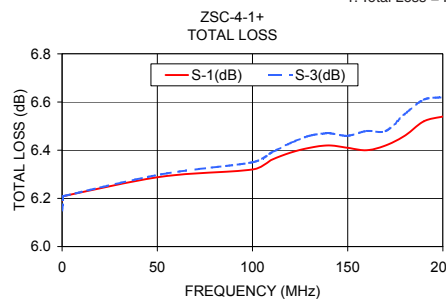
1. Total Loss = Insertion Loss + 6dB splitter loss.

### Outline Drawing

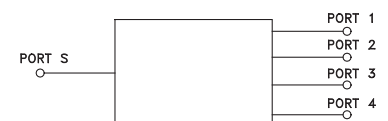


### Outline Dimensions (inch/mm)

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.
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