

# 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

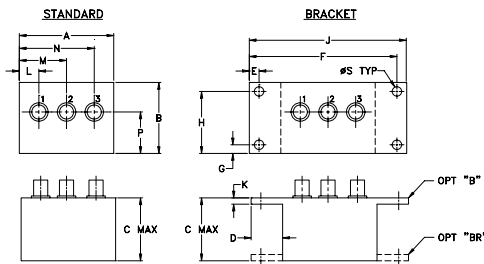
CASE STYLE: M22  
Connectors Model  
**BNC ZSC-2-4+**  
**BRACKET (OPTION "B")**  
**BRACKET (OPTION "BR")**

**+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.
$f_L$ - $f_U$																		
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



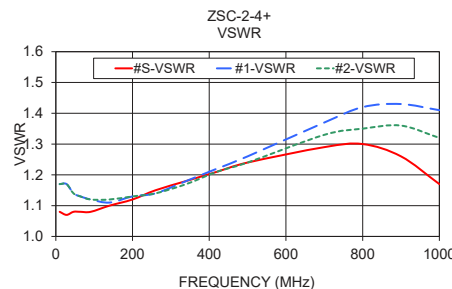
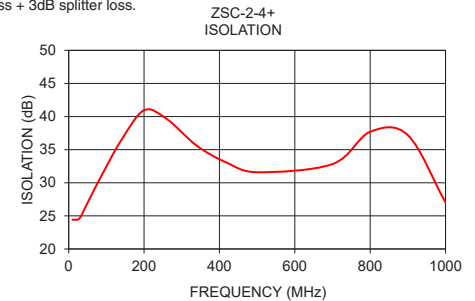
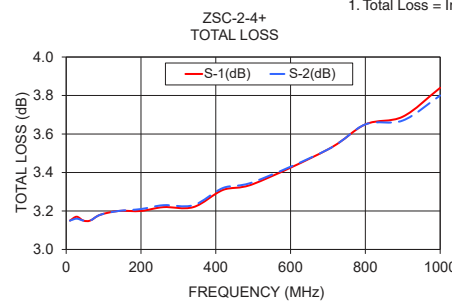
### Outline Dimensions (inch/mm)

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	

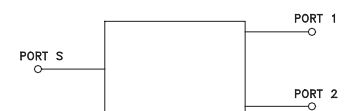
### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (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.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)

