

Power Splitter/Combiner

2 Way-0° 50Ω 1 to 650 MHz

Maximum Ratings

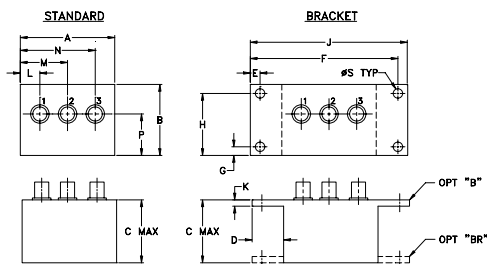
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	2
PORT 1	1
PORT 2	3

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	S	wt
2.25	1.38	1.24	.50	.150	3.100	.138	1.238	3.25	.10	.40	1.15	1.86	.64	.150	grams
57.15	35.05	31.50	12.70	3.81	78.74	3.51	31.45	82.55	2.54	10.16	29.21	47.24	16.26	3.81	74.0

Features

- wideband, 1 to 650 MHz
- low insertion loss, 0.5 dB typ.
- high isolation, 35 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- rugged shielded case

Applications

- VHF/UHF
- federal & defense communications
- instrumentation



Generic photo used for illustration purposes only

CASE STYLE: M22

Connectors Model

BNC ZSC-2-1W+

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

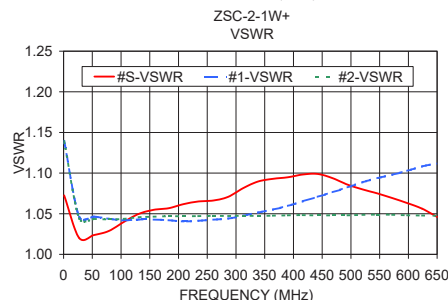
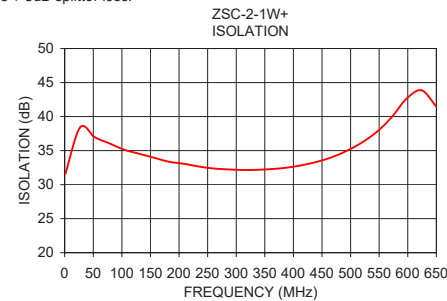
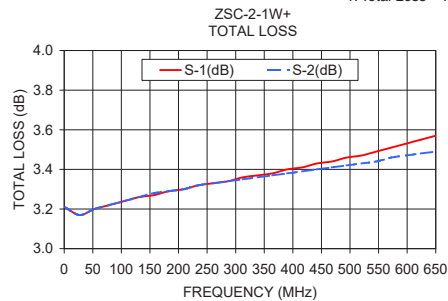
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-650	25	20	35	25	25	20	0.3	0.5	0.5	0.8	0.7	1.0	2	3	4	0.15	0.20	0.30

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

Frequency (MHz)	Total Loss¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	VSWR S	VSWR 1	VSWR 2	Frequency (MHz)	Phase Unbalance (Deg.)
	S-1	S-2							
1.00	3.21	3.21	0.00	31.52	1.07	1.14	1.14	1.00	0.01
26.96	3.17	3.17	0.00	38.41	1.02	1.05	1.04	5.00	0.00
52.92	3.20	3.20	0.00	36.96	1.02	1.05	1.04	10.00	0.02
104.84	3.24	3.24	0.00	35.12	1.04	1.04	1.04	50.00	0.08
156.76	3.27	3.28	0.00	33.95	1.05	1.04	1.05	100.00	0.14
208.68	3.30	3.30	0.00	33.07	1.06	1.04	1.05	200.00	0.24
260.60	3.33	3.33	0.00	32.37	1.07	1.04	1.05	300.00	0.39
312.52	3.36	3.35	0.00	32.15	1.08	1.05	1.05	325.00	0.33
364.44	3.38	3.37	0.01	32.30	1.09	1.06	1.05	400.00	0.46
416.36	3.41	3.39	0.02	32.88	1.10	1.07	1.05	500.00	0.46
468.28	3.44	3.41	0.03	34.06	1.09	1.08	1.05	600.00	0.51
520.20	3.47	3.43	0.04	36.21	1.08	1.09	1.05	650.00	0.49
572.12	3.51	3.46	0.05	39.94	1.07	1.10	1.05		
598.08	3.53	3.47	0.06	42.64	1.06	1.10	1.05		
650.00	3.57	3.49	0.08	41.48	1.05	1.11	1.05		

1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



Notes

- A. 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.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. 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

