

Coaxial

Power Splitter/Combiner

ZSC-2-2+

2 Way-0° 50Ω 0.002 to 60 MHz



Generic photo used for illustration purposes only

CASE STYLE: M22

Connectors Model
BNC ZSC-2-2+
BRACKET (OPTION "B")
BRACKET (OPTION "BR")

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

Maximum Ratings

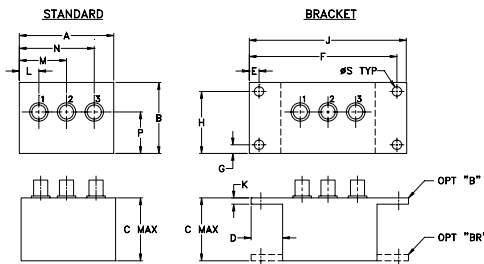
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

At low range frequency band (f_L to $10 f_L$), linearly derate maximum input power by 13 dB.
 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

- low insertion loss, 0.3 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.2 deg. typ.
- excellent VSWR, 1.1:1 typ.
- rugged shielded case

Applications

- HF
- amateur radio

Electrical Specifications

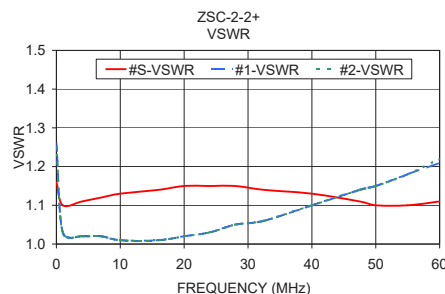
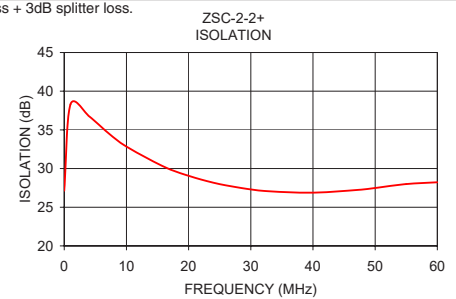
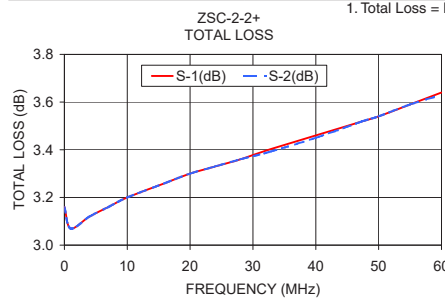
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			
	L*		M		U		L		M		U		L	M	U	L	M	U	
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	
f_L - f_U	25	20	30	20	27	20	0.3	0.6	0.3	0.6	0.6	1.0	2	3	4	0.15	0.25	0.30	
0.002-60																			

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]
 * Isolation specified to 0.006 MHz.

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.002	3.16	3.16	0.00	27.14	0.02	1.16	1.26	1.25
1.000	3.07	3.07	0.00	38.30	0.00	1.10	1.03	1.03
4.000	3.12	3.12	0.00	36.75	0.00	1.11	1.02	1.02
7.000	3.16	3.16	0.00	34.64	0.01	1.12	1.02	1.02
10.000	3.20	3.20	0.00	32.84	0.02	1.13	1.01	1.01
16.000	3.26	3.26	0.00	30.25	0.03	1.14	1.01	1.01
20.000	3.30	3.30	0.00	29.06	0.03	1.15	1.02	1.02
24.000	3.33	3.33	0.00	28.17	0.03	1.15	1.03	1.03
28.000	3.36	3.36	0.00	27.55	0.03	1.15	1.05	1.05
32.500	3.40	3.39	0.00	27.09	0.03	1.14	1.06	1.06
40.000	3.46	3.45	0.00	26.88	0.04	1.13	1.10	1.10
47.500	3.52	3.52	0.00	27.26	0.04	1.11	1.14	1.14
50.000	3.54	3.54	0.00	27.49	0.04	1.10	1.15	1.15
55.000	3.59	3.59	0.00	27.99	0.04	1.10	1.18	1.18
60.000	3.64	3.63	0.00	28.23	0.04	1.11	1.21	1.22

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-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

