

Coaxial

Power Splitter/Combiner

2 Way-180° 50Ω 0.01 to 20 MHz

Maximum Ratings

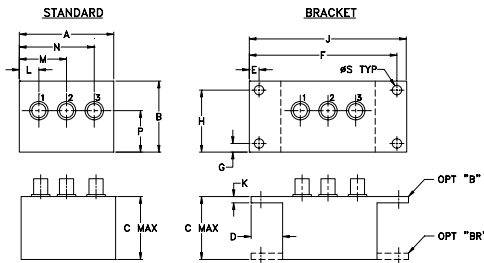
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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

SUMPORT	2
PORT 1	1
PORT 2	3

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

Features

- low insertion loss, 0.2 dB typ.
- high isolation, 30 dB typ.
- rugged shielded case

Applications

- HF
- radio communication
- instrumentation
- signal processing

Electrical Specifications

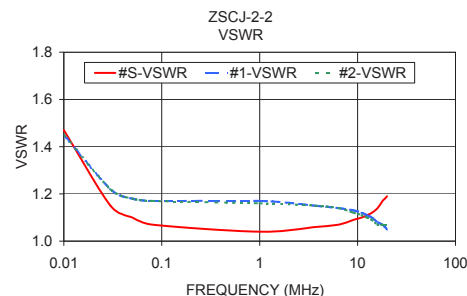
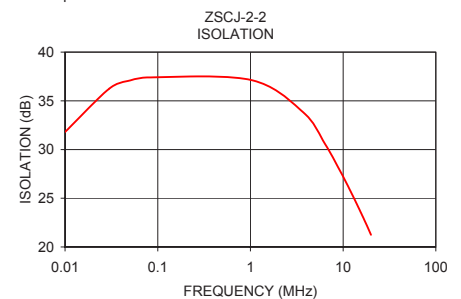
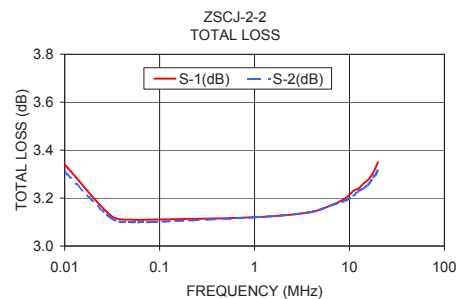
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f_L - f_U																		
0.01-20	35	25	30	25	25	18	0.3	0.8	0.2	0.5	0.3	0.6	1*	2	2.5	0.1	0.1	0.2

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]
* Phase unbalance is 3 degrees max from f_L to $3f_L$

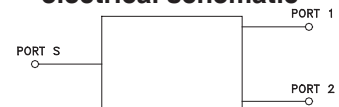
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.01	3.34	3.31	0.03	31.80	179.87	1.47	1.45	1.45
0.03	3.13	3.12	0.01	36.25	179.89	1.15	1.22	1.22
0.05	3.11	3.10	0.01	37.09	179.91	1.1	1.18	1.18
0.08	3.11	3.10	0.00	37.40	179.94	1.07	1.17	1.17
1.00	3.12	3.12	0.00	37.15	180.08	1.04	1.17	1.16
3.70	3.14	3.14	0.00	33.83	180.29	1.06	1.15	1.15
6.40	3.17	3.17	0.00	30.55	180.49	1.07	1.14	1.14
9.10	3.20	3.19	0.01	27.96	180.69	1.09	1.13	1.12
11.00	3.23	3.21	0.01	26.46	180.82	1.10	1.12	1.11
12.50	3.24	3.23	0.01	25.40	180.94	1.11	1.11	1.10
14.00	3.26	3.24	0.02	24.44	181.05	1.12	1.10	1.09
16.00	3.28	3.26	0.02	23.28	181.20	1.14	1.08	1.07
18.00	3.31	3.29	0.02	22.22	181.35	1.17	1.07	1.07
19.00	3.33	3.30	0.03	21.72	181.42	1.18	1.06	1.07
20.00	3.35	3.32	0.03	21.25	181.49	1.19	1.05	1.07

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.
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ZSCJ-2-2+
ZSCJ-2-2



CASE STYLE: M22

Connectors	Model
BNC	ZSCJ-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

REV. C
M151107
ZSCJ-2-2
HY/TD/CP/AM
151019