

Coaxial

Power Splitter/Combiner

ZSCJ-2-2+
ZSCJ-2-2



CASE STYLE: M22

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.

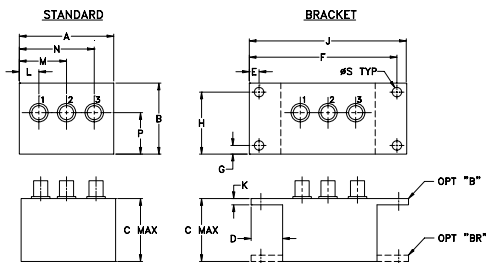
At low range frequency band (f_L to $10 f_L$), linearly derate maximum input power by 13 dB.

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

Connectors	Model	Price	Qty.
BNC	ZSCJ-2-2(+)	\$59.95	(1-9)
BRACKET	(OPTION "B")	\$5.00	(1+)
BRACKET	(OPTION "BR")	\$1.50	(1+)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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	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

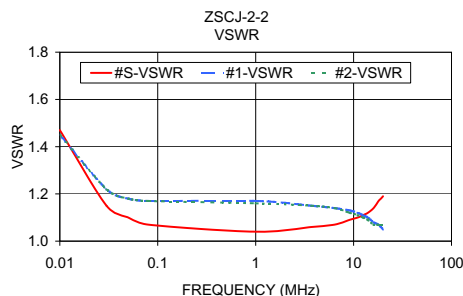
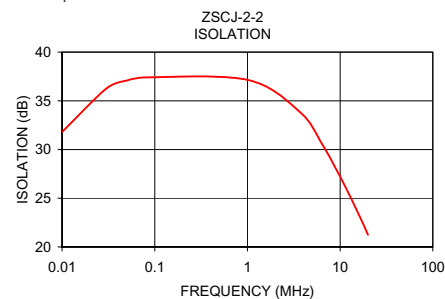
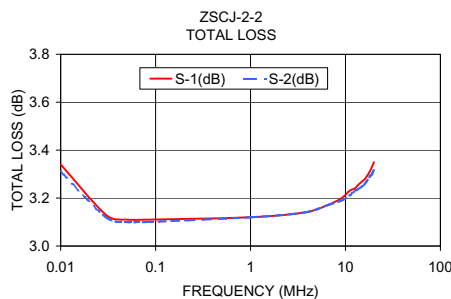
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

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

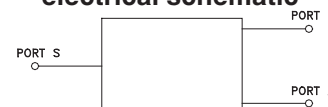
Typical Performance Data

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



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