

Coaxial

Power Splitter/Combiner

ZSC-3-2+

3 Way-0° 50Ω 0.01 to 30 MHz



CASE STYLE: P25

Maximum Ratings

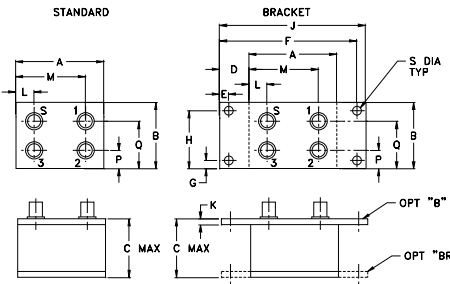
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.375W max.

At low range frequency band(f_L to $10f_L$), linearly derate maximum input power by 13 dB.
Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	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	Q	S	wt	
3.25	.10	.78	1.47	--	.38	1.00	.150	grams	
82.55	2.54	19.81	37.34	--	9.65	25.40	3.81	110.0	

Features

- low insertion loss, 0.15 dB typ.
- high isolation, 40 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- rugged shielded case

Applications

- HF
- amateur radio
- communication system

Connectors	Model	Price	Qty.
BNC	ZSC-3-2+	\$61.95	(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 has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

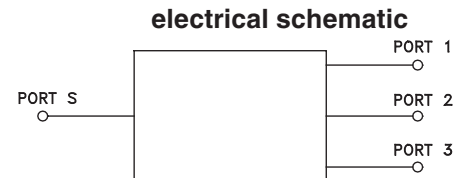
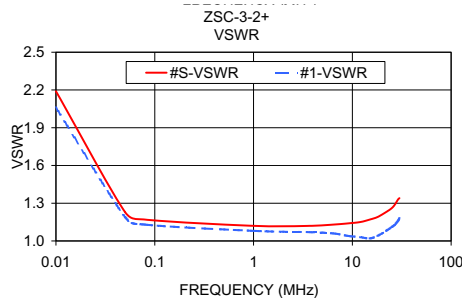
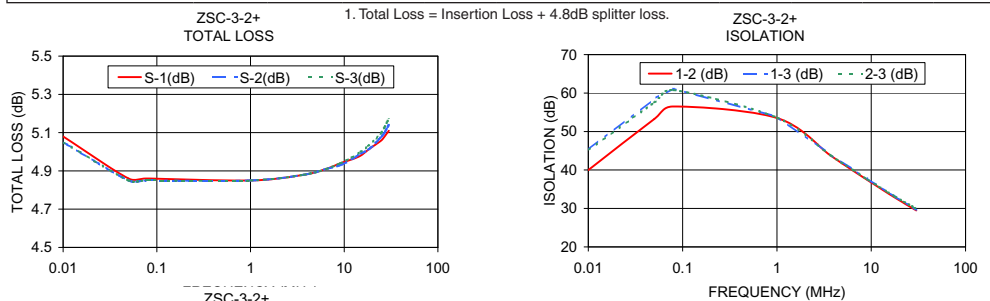
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 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																		
0.01-30	35	30	40	25	30	25	0.25	0.45	0.15	0.45	0.45	0.75	1.0	2.0	4.0	0.2	0.3	0.4

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

Freq. (MHz)	Total Loss ¹ (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
0.01	5.08	5.05	5.05	0.03	39.98	45.28	45.16	0.66	2.19	2.06	2.06	2.11
0.05	4.86	4.85	4.85	0.01	53.25	58.54	57.54	0.04	1.23	1.19	1.19	1.19
0.08	4.86	4.85	4.85	0.01	56.50	61.15	60.78	0.00	1.17	1.13	1.13	1.14
1.00	4.85	4.85	4.85	0.01	53.52	53.82	53.61	0.02	1.12	1.08	1.08	1.09
3.70	4.88	4.88	4.88	0.00	43.77	44.01	43.84	0.03	1.12	1.07	1.07	1.07
6.40	4.91	4.91	4.91	0.00	39.85	40.14	40.01	0.04	1.13	1.06	1.06	1.06
9.10	4.94	4.93	4.94	0.00	37.40	37.69	37.59	0.06	1.14	1.04	1.04	1.05
12.00	4.96	4.96	4.97	0.01	35.48	35.76	35.70	0.09	1.15	1.03	1.03	1.04
15.00	4.98	4.99	5.00	0.01	33.96	34.24	34.22	0.11	1.17	1.02	1.03	1.04
18.00	5.01	5.01	5.03	0.02	32.75	33.02	33.05	0.14	1.19	1.04	1.05	1.05
22.00	5.04	5.05	5.07	0.03	31.46	31.70	31.79	0.18	1.23	1.08	1.08	1.09
25.00	5.06	5.08	5.10	0.04	30.64	30.87	31.02	0.22	1.26	1.11	1.12	1.12
27.00	5.08	5.10	5.13	0.05	30.16	30.36	30.57	0.24	1.29	1.13	1.14	1.14
29.00	5.10	5.13	5.16	0.06	29.70	29.88	30.13	0.26	1.33	1.16	1.17	1.17
30.00	5.11	5.14	5.17	0.06	29.48	29.65	29.91	0.27	1.34	1.18	1.18	1.18



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine [minicircuits.com](http://www.minicircuits.com) Provides ACTUAL Data Instantly at [minicircuits.com](http://www.minicircuits.com)

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