

Coaxial

# Power Splitter/Combiner

## ZSC-2-1W+

2 Way-0° 50Ω 1 to 650 MHz



### Maximum Ratings

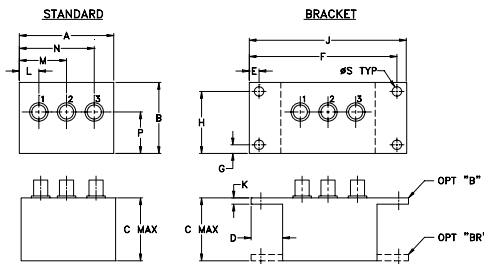
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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
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

- 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

CASE STYLE: M22

Connectors	Model	Price	Qty.
BNC	ZSC-2-1W+	\$49.95	(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.

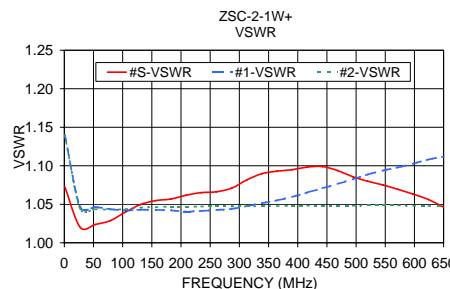
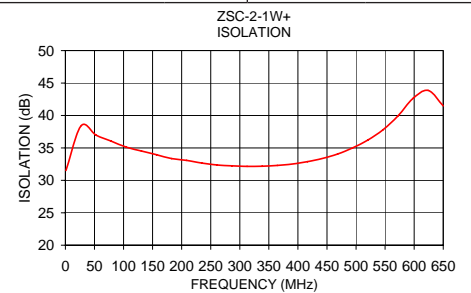
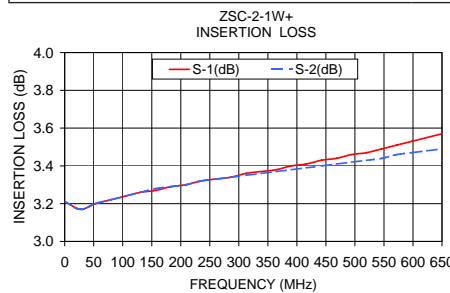
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 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.
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

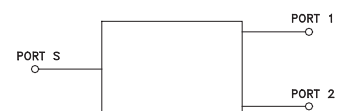
L = low range [ $f_L$  to  $10 f_L$ ] M = mid range [ $10 f_L$  to  $f_U/2$ ] U = upper range [ $f_U/2$  to  $f_U$ ]

### Typical Performance Data

Frequency (MHz)	Insertion Loss (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		



### electrical schematic



For detailed performance specs & shopping online see web site

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