

Coaxial Power Splitter/Combiner

3 Way-0° 50Ω 1 to 200 MHz

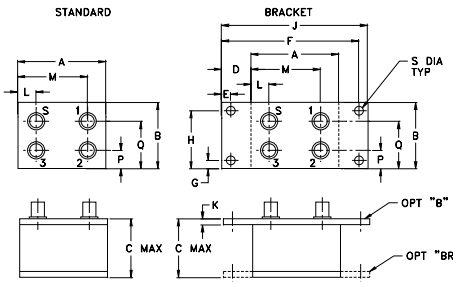
Maximum Ratings

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

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	
1.50	1.13	1.00	.50	.155	2.345	.138	.987	
38.10	28.70	25.40	12.70	3.94	59.56	3.51	25.07	
J	K	L	M	N	P	Q	S	wt
2.50	.10	.50	1.00	--	.31	.81	.150	grams
63.50	2.54	12.70	25.40	--	7.87	20.57	3.81	60.0

Features

- rugged shielded case

Applications

- VHF
- instrumentation
- radio communication system

ZMSC-3-1+
ZMSC-3-1



CASE STYLE: P26

Connectors	Model	Price	Qty.
SMA	ZMSC-3-1(+)	\$57.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(1+)

+RoHS Compliant

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

Electrical Specifications

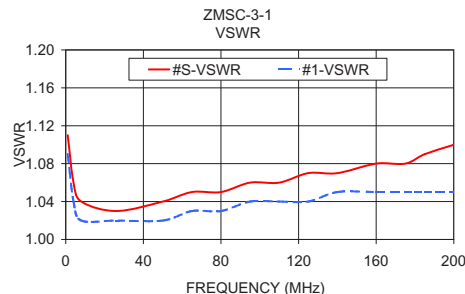
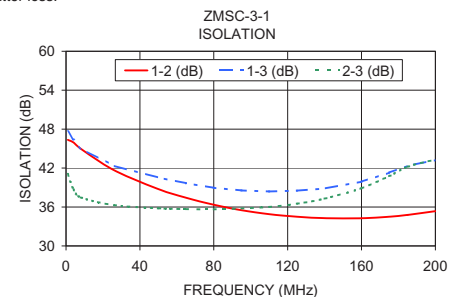
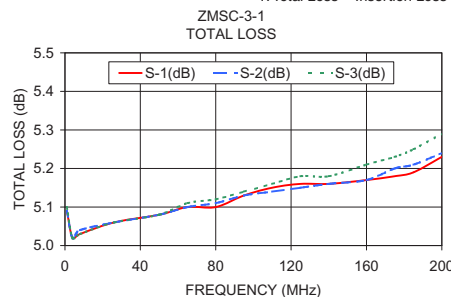
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-200	45	35	40	25	40	25	0.3	0.5	0.4	0.7	0.6	1.0	1	2	4	0.15	0.2	0.3

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]

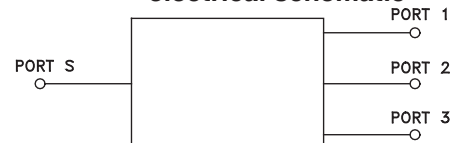
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR			
	S-1	S-2	S-3		1-2	1-3	2-3		S	1	2	3
1.00	5.09	5.09	5.10	0.01	46.35	47.66	41.10	0.06	1.11	1.09	1.09	1.09
4.00	5.02	5.02	5.02	0.01	45.95	46.40	38.74	0.07	1.06	1.04	1.03	1.04
8.00	5.03	5.04	5.03	0.01	44.98	45.00	37.47	0.09	1.04	1.02	1.02	1.02
26.00	5.06	5.06	5.06	0.00	41.67	42.34	36.29	0.19	1.03	1.02	1.02	1.02
50.00	5.08	5.08	5.08	0.00	38.76	40.53	35.80	0.43	1.04	1.02	1.02	1.02
65.00	5.10	5.10	5.11	0.01	37.43	39.67	35.68	0.53	1.05	1.03	1.02	1.02
80.00	5.10	5.11	5.12	0.02	36.35	38.96	35.64	0.64	1.05	1.03	1.02	1.02
95.00	5.13	5.13	5.14	0.01	35.50	38.55	35.78	0.79	1.06	1.04	1.02	1.02
110.00	5.15	5.14	5.16	0.02	34.89	38.39	36.01	0.90	1.06	1.04	1.02	1.02
125.00	5.16	5.15	5.18	0.02	34.50	38.52	36.51	0.95	1.07	1.04	1.02	1.02
140.00	5.16	5.16	5.18	0.03	34.28	38.84	37.29	1.08	1.07	1.05	1.02	1.02
160.00	5.17	5.17	5.21	0.04	34.27	39.90	38.89	1.17	1.08	1.05	1.02	1.02
175.00	5.18	5.20	5.23	0.05	34.50	41.29	40.75	1.29	1.08	1.05	1.02	1.02
185.00	5.19	5.21	5.25	0.06	34.78	42.35	42.20	1.31	1.09	1.05	1.02	1.02
200.00	5.23	5.24	5.29	0.06	35.36	43.22	43.31	1.48	1.10	1.05	1.01	1.02

1. Total Loss = Insertion Loss + 4.8dB 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.
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