Plug-In

Power Splitter/Combiner

PSC-4-1-75+

4 Way-0° 75Ω 1 to 200 MHz

CASE STYLE: A01

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	0.250W max.

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

SUM PORT	4
PORT 1	7
PORT 2	8
PORT 3	1
PORT 4	2
GROUND	3,5,6
CASE GROUND	3,5,6

Features

- low insertion loss, 0.5 dB typ.
- good isolation, 30 dB typ.
- rugged welded construction

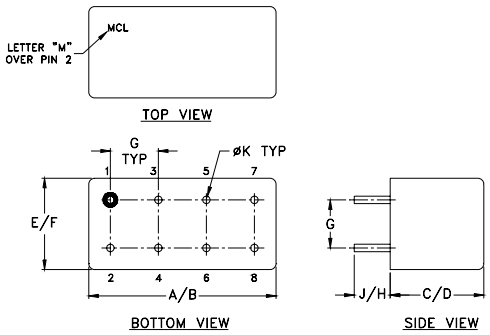
Applications

- HF/VHF
- amateur FM radio
- instrumentation

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	**H**	**J**	**K**		**wt**
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		5.2

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		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	30	20	25	20	25	20	0.4	0.7	0.5	0.9	0.7	1.2	2	3	4	0.15	0.2	0.3

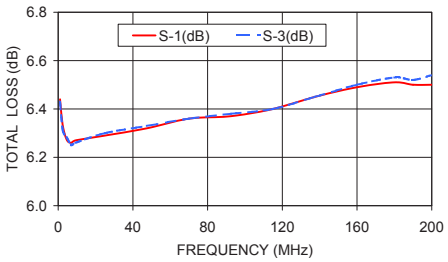
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

Typical Performance Data

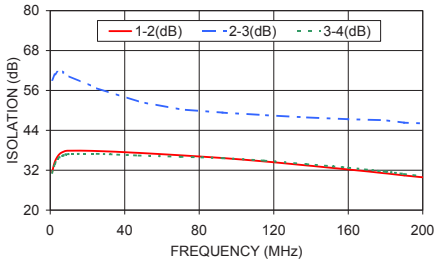
Freq. (MHz)	Total Loss[1] (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	1-3	3-4						
1.00	6.44	6.41	6.43	6.44	0.03	31.36	59.15	31.20	0.08	1.14	1.19	1.19	1.19	1.19
2.50	6.33	6.33	6.31	6.32	0.02	34.59	60.84	33.86	0.26	1.09	1.12	1.13	1.13	1.13
4.75	6.27	6.27	6.28	6.25	0.02	36.73	62.33	35.76	0.20	1.06	1.09	1.09	1.09	1.09
7.00	6.26	6.27	6.25	6.25	0.03	37.54	61.43	36.42	0.21	1.05	1.07	1.07	1.08	1.08
9.25	6.27	6.26	6.26	6.26	0.01	37.87	60.47	36.81	0.10	1.04	1.07	1.07	1.07	1.07
25.00	6.29	6.29	6.30	6.30	0.02	37.78	56.68	36.93	0.11	1.05	1.07	1.07	1.07	1.07
47.50	6.32	6.34	6.33	6.32	0.02	37.21	52.63	36.42	0.05	1.09	1.09	1.09	1.09	1.09
70.00	6.36	6.38	6.36	6.36	0.02	36.50	50.29	36.05	0.27	1.14	1.11	1.12	1.12	1.12
92.50	6.37	6.39	6.38	6.39	0.02	35.67	49.33	35.63	0.16	1.19	1.14	1.15	1.15	1.15
115.00	6.40	6.38	6.40	6.44	0.06	34.64	48.59	34.88	0.21	1.24	1.17	1.18	1.18	1.17
137.50	6.45	6.45	6.45	6.46	0.02	33.45	47.89	33.82	0.34	1.29	1.21	1.21	1.21	1.21
160.00	6.49	6.48	6.50	6.54	0.05	32.24	47.34	32.75	0.46	1.34	1.24	1.24	1.25	1.24
180.00	6.51	6.50	6.53	6.55	0.05	31.07	47.03	31.57	0.34	1.39	1.27	1.27	1.28	1.27
190.00	6.50	6.49	6.52	6.56	0.06	30.44	46.30	30.88	0.27	1.42	1.29	1.29	1.29	1.29
200.00	6.50	6.50	6.54	6.57	0.07	29.86	46.11	30.22	0.41	1.44	1.31	1.31	1.31	1.31

1. Total Loss = Insertion Loss + 6dB splitter loss.

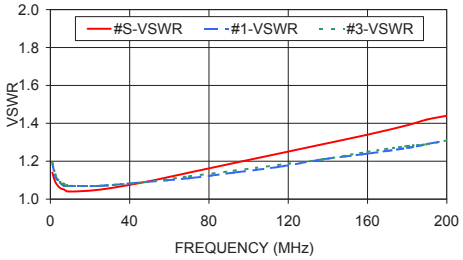
PSC-4-1-75+
TOTAL LOSS



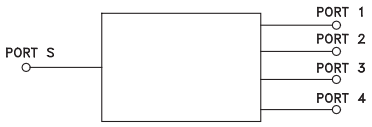
PSC-4-1-75+
ISOLATION



PSC-4-1-75+
VSWR



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.
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