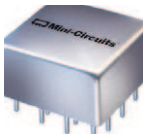
Plug-In

Power Splitter/Combiner

PSC-8-1-75+

8 Way-0° 75Ω 0.5 to 175 MHz



CASE STYLE: C07
PRICE: $84.45 ea. QTY. (1-9)

Maximum Ratings

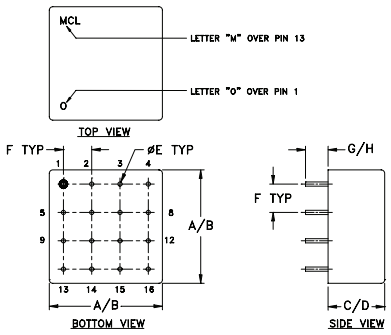
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.62W max.

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

Pin Connections

SUM PORT	2
PORT 1	1
PORT 2	5
PORT 3	9
PORT 4	13
PORT 5	16
PORT 6	12
PORT 7	8
PORT 8	4
GROUND	3,6,7,14,15
CASE GROUND	3,6,7,14,15
NOT USED	10,11

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	wt
.770	.810	.380	.410	.030	.200	.20	.14	grams
19.56	20.57	9.65	10.41	0.76	5.08	5.08	3.56	11.0

Features

- low insertion loss, 0.6 dB typ.
- high isolation, 30 dB typ.
- rugged welded construction

Applications

- HF/VHF
- radio communication
- instrumentation

+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 9.0 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.
0.5-175	25	20	30	20	25	20	0.5	1.1	0.6	1.1	0.7	1.3	2.0	2.5	5.0	0.2	0.2	0.3

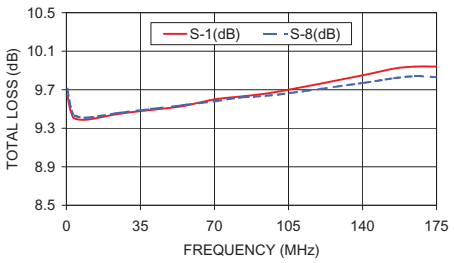
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U = upper range [f_U/2 to f_U]

Typical Performance Data

Freq. (MHz)	Total Loss[1] (dB)						Amplitude Unbalance (dB)	Isolation (dB)				VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-7	3-4	5-7			
0.50	9.64	9.64	9.64	9.65	9.69	9.71	0.06	29.22	35.73	31.36	32.59	1.26	1.40	1.37
1.50	9.52	9.53	9.53	9.53	9.56	9.57	0.05	32.08	38.90	33.69	36.03	1.13	1.23	1.22
2.50	9.45	9.45	9.45	9.45	9.47	9.48	0.04	32.73	40.32	34.47	37.69	1.09	1.19	1.18
4.00	9.40	9.40	9.40	9.41	9.42	9.43	0.03	33.64	41.35	34.79	38.90	1.06	1.15	1.15
10.00	9.39	9.40	9.40	9.40	9.40	9.41	0.02	34.80	42.11	34.83	40.12	1.02	1.12	1.12
25.00	9.45	9.45	9.45	9.45	9.45	9.46	0.01	35.01	42.05	34.60	40.22	1.07	1.13	1.13
40.00	9.49	9.50	9.49	9.49	9.48	9.50	0.02	35.05	41.95	34.63	39.72	1.12	1.14	1.14
55.00	9.53	9.54	9.52	9.52	9.52	9.54	0.02	35.38	41.73	34.99	38.91	1.17	1.15	1.15
70.00	9.60	9.59	9.58	9.58	9.57	9.58	0.03	35.80	41.72	35.38	37.90	1.22	1.17	1.16
82.50	9.63	9.63	9.61	9.60	9.59	9.62	0.04	36.23	41.63	35.84	36.98	1.26	1.18	1.18
100.00	9.68	9.67	9.65	9.64	9.62	9.65	0.06	36.75	41.32	36.45	35.57	1.32	1.20	1.20
140.00	9.85	9.82	9.79	9.76	9.75	9.77	0.11	37.08	40.49	37.91	32.56	1.43	1.26	1.24
155.00	9.92	9.89	9.86	9.83	9.81	9.82	0.12	36.56	39.92	38.10	31.52	1.45	1.28	1.25
165.00	9.94	9.91	9.87	9.84	9.82	9.84	0.15	36.07	39.45	37.92	30.82	1.46	1.29	1.26
175.00	9.94	9.91	9.87	9.83	9.82	9.83	0.15	35.47	39.13	37.68	30.17	1.46	1.29	1.26

1. Total Loss = Insertion Loss + 9dB splitter loss.

PSC-8-1-75+
TOTAL LOSS



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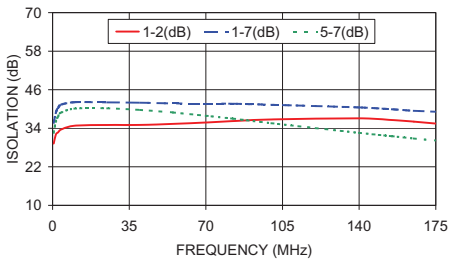
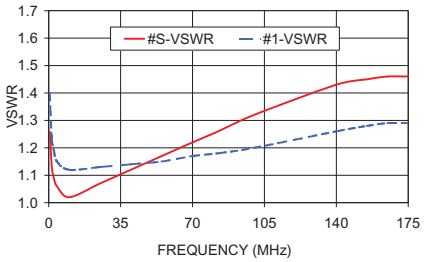
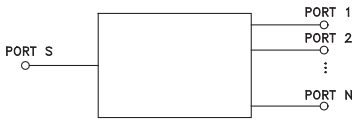
ISOLATION



PSC-8-1-75+
VSWR



electrical schematic



For detailed performance specs & shopping online see web site

REV. C
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