

Plug-In

Power Splitter/Combiner

PSC-6-1W+

6 Way-0° 50Ω .5 to 300 MHz

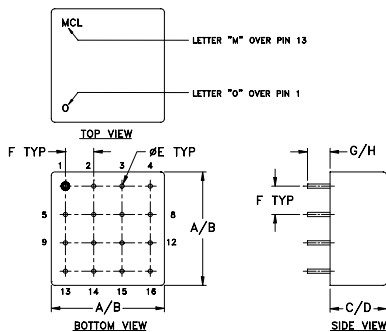
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.5W max.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

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

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

electrical schematic



Features

- low insertion loss, 1.0 dB typ.
- high isolation, 25 dB typ.
- rugged welded case
- excellent amplitude unbalance, 0.2 dB typ.

Applications

- VHF/UHF
- radio communication
- instrumentation



CASE STYLE: C07

Units marked as PSC-6-1+

+RoHS Compliant

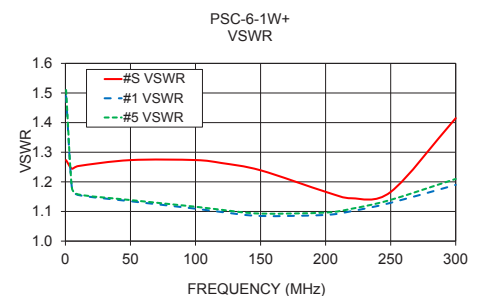
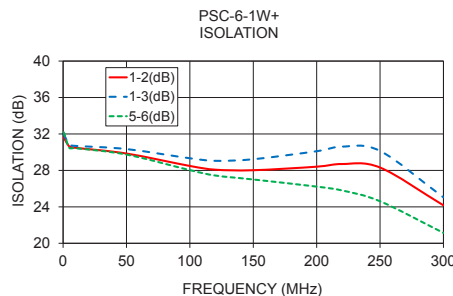
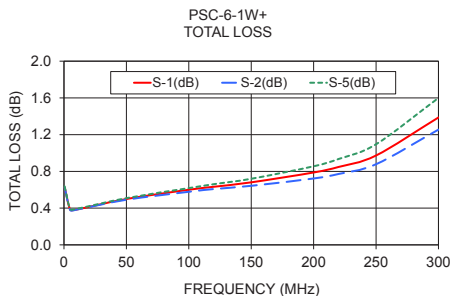
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		0.5		300	MHz
Insertion Loss Above 7.8 dB	0.5-5	—	0.6	0.9	dB
	5-100	—	0.4	0.9	
	100-250	—	1.0	1.4	
	250-300	—	1.3	1.9	
Isolation	0.5-50	25	30	—	dB
	50-250	20	25	—	
	250-300	18	21	—	
Phase Unbalance	0.5-100	—	0.7	2	Degree
	100-250	—	1.5	3	
	250-300	—	2.0	6	
Amplitude Unbalance	0.5-100	—	0.1	0.3	dB
	100-250	—	0.2	0.5	
	250-300	—	0.3	0.7	
VSWR (Port S)	0.5-250	—	1.28	—	:1
	250-300	—	1.35	—	
VSWR (Port 1-6)	0.5-5	—	1.5	—	:1
	5-300	—	1.2	—	

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)			Amplitude Unbalance (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 3
	S-1	S-2	S-3		1-2	1-3	5-6				
0.50	0.63	0.63	0.64	0.01	31.58	31.99	32.19	0.41	1.27	1.49	1.51
5.00	0.38	0.38	0.39	0.01	30.62	30.79	30.46	0.07	1.24	1.18	1.18
10.00	0.38	0.38	0.39	0.01	30.48	30.69	30.43	0.05	1.25	1.16	1.16
50.00	0.50	0.49	0.51	0.02	29.85	30.34	29.74	0.22	1.27	1.13	1.14
100.00	0.60	0.58	0.62	0.05	28.49	29.33	28.03	0.48	1.27	1.11	1.12
120.00	0.63	0.61	0.66	0.07	28.08	29.05	27.44	0.60	1.26	1.10	1.11
150.00	0.68	0.64	0.72	0.11	28.02	29.23	27.00	0.76	1.24	1.08	1.09
200.00	0.79	0.72	0.86	0.19	28.41	30.11	26.22	1.13	1.17	1.09	1.10
220.00	0.85	0.77	0.93	0.23	28.70	30.61	25.80	1.31	1.14	1.10	1.11
250.00	0.97	0.88	1.10	0.30	28.31	30.14	24.61	1.61	1.17	1.13	1.14
300.00	1.39	1.25	1.60	0.47	24.17	25.04	21.14	2.21	1.42	1.19	1.21



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