

Plug-In

Power Splitter/Combiner

PSC-8-1W+

8 Way-0° 50Ω 10 to 600 MHz



CASE STYLE: C07

Maximum Ratings

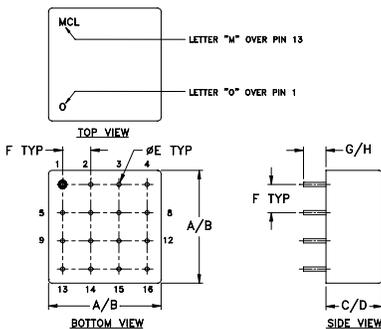
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.62W max.

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

- wideband, 10 to 600 MHz
- good isolation, 23 dB typ.
- rugged welded construction

Applications

- VHF/UHF
- signal processing
- radio communication

Electrical Specifications

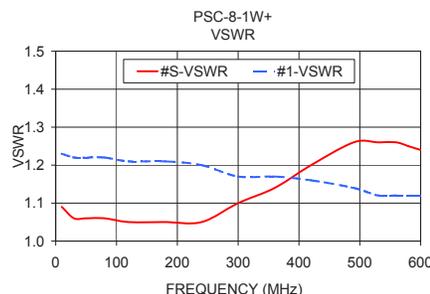
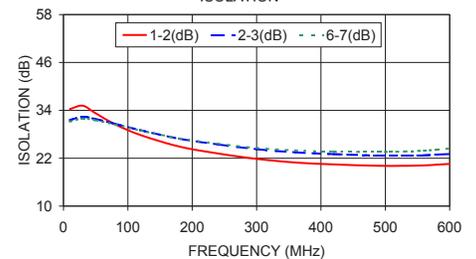
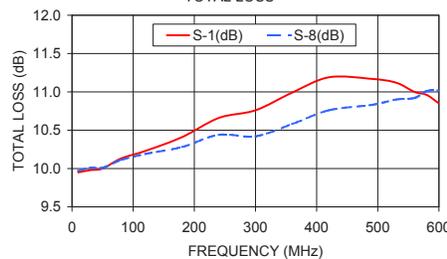
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 9.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
10-600	25	20	23	16	20	16	1.0	1.8	1.2	2.2	1.7	2.8	2	4	10	0.3	0.6	0.9

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]

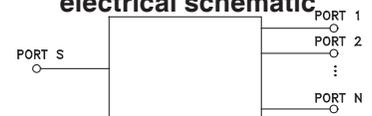
Typical Performance Data

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	2-3	5-8	6-7			
10.00	9.95	9.95	9.95	9.94	9.98	9.97	0.04	34.34	31.56	31.27	31.18	1.09	1.23	1.24
30.00	9.98	9.98	9.98	9.98	10.01	10.01	0.04	35.16	32.37	32.31	31.98	1.06	1.22	1.22
50.00	10.00	9.99	10.00	9.99	10.01	10.01	0.07	33.26	31.80	32.15	31.51	1.06	1.22	1.22
80.00	10.13	10.10	10.11	10.09	10.11	10.11	0.04	30.52	30.61	31.67	30.45	1.06	1.22	1.22
120.00	10.23	10.19	10.18	10.15	10.17	10.19	0.08	27.79	29.00	30.77	28.94	1.05	1.21	1.21
180.00	10.41	10.32	10.28	10.24	10.24	10.28	0.17	24.93	26.88	29.34	26.95	1.05	1.21	1.19
240.00	10.66	10.50	10.44	10.37	10.37	10.44	0.31	23.18	25.45	28.19	25.64	1.05	1.20	1.17
300.00	10.76	10.56	10.46	10.36	10.35	10.42	0.47	21.83	24.26	27.05	24.58	1.10	1.17	1.14
360.00	10.99	10.75	10.64	10.50	10.51	10.58	0.58	20.93	23.46	26.15	23.95	1.14	1.17	1.13
420.00	11.19	10.94	10.85	10.66	10.66	10.76	0.61	20.44	23.02	25.43	23.68	1.20	1.16	1.13
490.00	11.17	11.01	10.97	10.75	10.77	10.83	0.50	20.09	22.66	24.56	23.55	1.26	1.14	1.12
530.00	11.12	11.04	11.07	10.83	10.86	10.90	0.36	20.10	22.65	24.13	23.69	1.26	1.12	1.13
560.00	11.00	11.02	11.11	10.86	10.91	10.92	0.31	20.20	22.73	23.80	23.89	1.26	1.12	1.17
580.00	10.96	11.05	11.20	10.94	11.02	11.01	0.33	20.38	22.90	23.64	24.14	1.25	1.12	1.18
600.00	10.85	11.02	11.22	10.98	11.06	11.02	0.37	20.58	23.07	23.46	24.42	1.24	1.12	1.20

1. Total Loss = Insertion Loss + 9dB 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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