

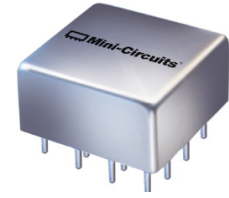
Plug-In

Power Splitter/Combiner

NON-CATALOG

PSC-4A-4+

4 Way-0° 50Ω 10 to 1000 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	0.250W max.

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

Pin Connections

SUM PORT	2
PORT 1	8
PORT 2	12
PORT 3	5
PORT 4	9
GROUND	1,3,4,6,7,10,11,13,14,15,16
CASE GROUND	1,3,4,6,7,10,11,13,14,15,16

Features

- wideband, 10 to 1000 MHz
- low insertion loss, 0.8 dB typ.
- good isolation, 25 dB typ.
- rugged welded construction

Applications

- cellular
- VHF/UHF
- communication systems

+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 6.0 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.
f_L - f_U							0.5	0.8	0.8	1.8	1.5	2.5	4	16	20	0.2	0.5	0.7
10-1000	25	20	21	15	18	15												

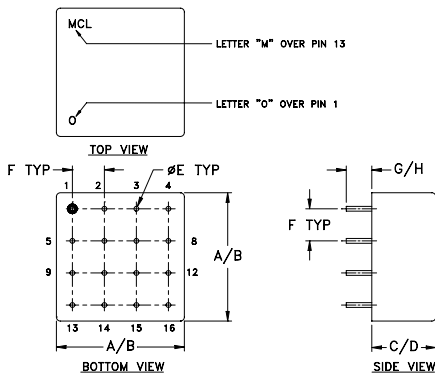
L = low range [f_L to 10 f_L] M = mid range [10 f_L to $f_U/2$] U = upper range [$f_U/2$ to f_U]

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR	VSWR	VSWR	VSWR	VSWR
	S-1	S-2	S-3	S-4		1-2	2-3	3-4		S	1	2	3	4
10.00	6.40	6.41	6.40	6.40	0.01	38.87	27.06	39.90	0.11	1.36	1.78	1.78	1.76	1.76
20.00	6.47	6.47	6.47	6.47	0.01	37.06	30.68	35.60	0.23	1.23	1.56	1.56	1.54	1.54
30.00	6.40	6.39	6.40	6.40	0.01	35.11	32.85	33.75	0.48	1.21	1.47	1.47	1.46	1.46
60.00	6.45	6.45	6.45	6.45	0.01	31.00	36.56	30.22	0.46	1.22	1.38	1.38	1.37	1.37
90.00	6.39	6.38	6.40	6.39	0.02	28.02	37.57	27.51	0.41	1.25	1.36	1.36	1.35	1.35
140.00	6.44	6.43	6.46	6.45	0.03	24.82	36.73	24.52	0.27	1.30	1.30	1.30	1.30	1.30
200.00	6.45	6.44	6.50	6.49	0.06	22.05	34.72	21.86	0.21	1.37	1.30	1.30	1.30	1.30
260.00	6.38	6.36	6.43	6.42	0.08	20.12	32.93	19.96	0.96	1.39	1.28	1.28	1.28	1.28
340.00	6.54	6.51	6.64	6.60	0.13	18.57	31.30	18.44	0.74	1.45	1.24	1.25	1.25	1.25
400.00	6.61	6.57	6.74	6.69	0.17	17.75	30.32	17.63	0.83	1.52	1.21	1.22	1.23	1.23
460.00	6.71	6.67	6.88	6.82	0.22	17.10	29.42	16.98	0.49	1.52	1.22	1.23	1.24	1.24
600.00	6.65	6.57	6.91	6.81	0.34	16.58	28.02	16.42	1.02	1.46	1.15	1.16	1.18	1.18
750.00	6.75	6.64	7.08	6.96	0.44	17.44	27.43	17.11	2.40	1.35	1.09	1.09	1.12	1.12
900.00	6.78	6.63	7.08	6.99	0.45	20.07	27.67	19.30	3.84	1.20	1.00	1.01	1.04	1.03
1000.00	7.04	6.86	7.28	7.25	0.43	23.78	28.26	22.48	4.74	1.25	1.08	1.08	1.06	1.05

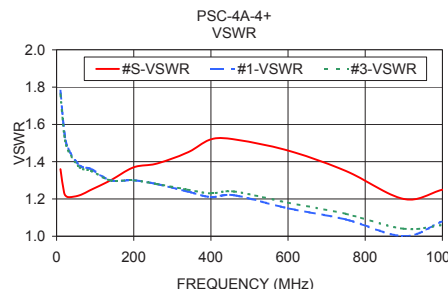
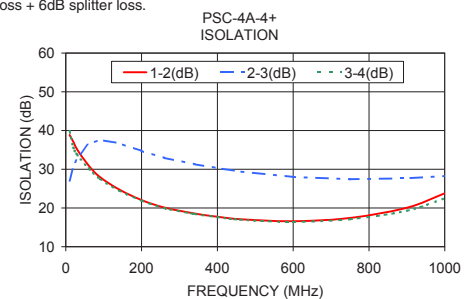
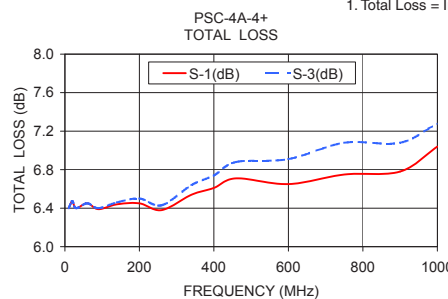
1. Total Loss = Insertion Loss + 6dB splitter loss.

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



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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