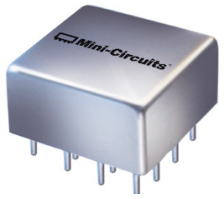
Plug-In

Power Splitter/Combiner

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

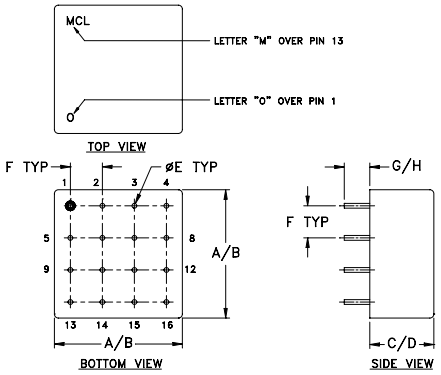
Applications

- cellular
- VHF/UHF
- communication systems

+RoHS Compliant

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

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

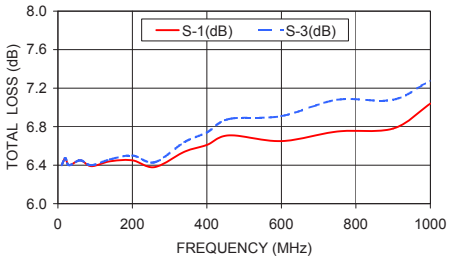
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

Typical Performance Data

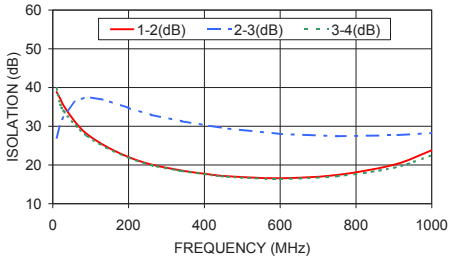
Freq. (MHz)	Total Loss[1] (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
10.00	6.40	6.41	6.40	6.40	0.01	38.87	27.06	39.90	0.11	1.36	1.78	1.78	1.76	1.76
20.00	6.47	6.47	6.47	6.47	0.01	37.06	30.68	35.60	0.23	1.23	1.56	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.

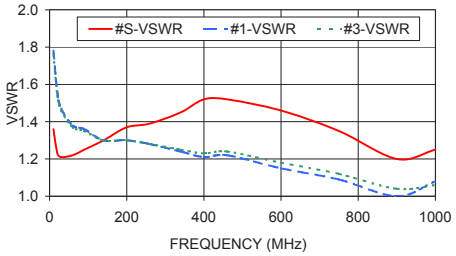
PSC-4A-4+
TOTAL LOSS



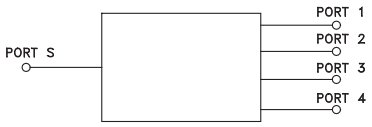
PSC-4A-4+
ISOLATION



PSC-4A-4+
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.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp