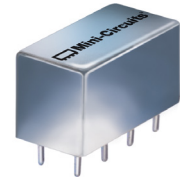


Plug-In

Power Splitter/Combiner

PSC-4-1+

4 Way-0° 50Ω 0.1 to 200 MHz



CASE STYLE: A01

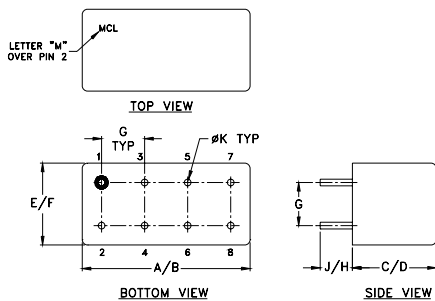
Maximum Ratings

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	4
PORT 1	7
PORT 2	8
PORT 3	1
PORT 4	2
GROUND	3,5,6
CASE GROUND	3,5,6

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K	wt	
.200	.20	.14	.031	grams	
5.08	5.08	3.56	0.79	5.2	

Features

- low insertion loss, 0.5 dB typ.
- good isolation, 30 dB typ.
- rugged welded construction

Applications

- HF/VHF
- amateur FM radio
- federal and defense communication

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

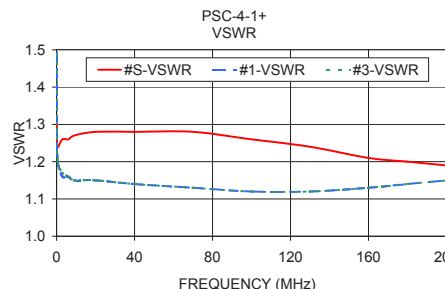
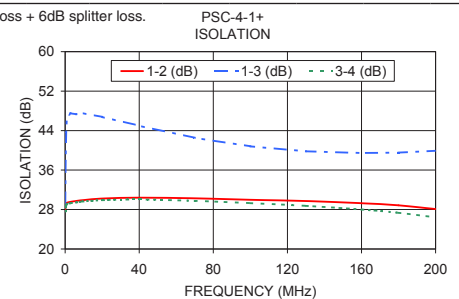
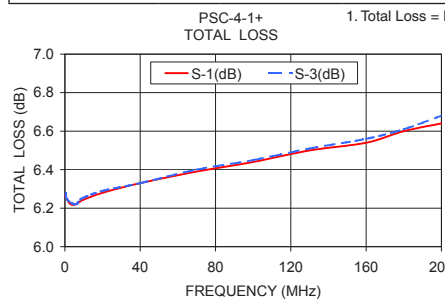
Electrical Specifications

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	33	20	30	20	27	20	0.4	0.6*	0.5	0.75	0.7	1.0	4	6	8	0.15*	0.2	0.25
0.1-200																		

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]
* Adjacent ports, 25°C

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	1-3	3-4						
0.10	6.27	6.28	6.28	6.27	0.01	28.07	29.19	27.60	0.38	1.32	1.53	1.52	1.53	1.53
0.30	6.26	6.26	6.26	6.27	0.01	29.01	38.45	28.71	0.17	1.24	1.23	1.23	1.23	1.23
0.60	6.26	6.27	6.27	6.27	0.01	29.23	43.79	28.91	0.11	1.24	1.20	1.19	1.20	1.19
0.90	6.25	6.26	6.25	6.25	0.01	29.37	46.20	29.10	0.10	1.24	1.19	1.18	1.19	1.18
3.00	6.22	6.22	6.23	6.23	0.01	29.57	47.50	29.30	0.06	1.26	1.16	1.16	1.17	1.16
6.00	6.22	6.23	6.22	6.24	0.02	29.73	47.30	29.45	0.10	1.26	1.16	1.15	1.16	1.15
9.00	6.24	6.23	6.25	6.24	0.01	29.88	47.57	29.61	0.06	1.27	1.15	1.15	1.15	1.15
20.00	6.28	6.29	6.29	6.30	0.02	30.22	46.77	29.89	0.12	1.28	1.15	1.14	1.15	1.14
40.00	6.33	6.35	6.33	6.35	0.02	30.40	44.99	30.04	0.12	1.28	1.14	1.14	1.14	1.14
70.00	6.39	6.40	6.40	6.42	0.03	30.27	42.53	29.75	0.21	1.28	1.13	1.13	1.13	1.13
100.00	6.44	6.46	6.45	6.48	0.04	29.97	40.81	29.29	0.31	1.26	1.12	1.12	1.12	1.12
130.00	6.50	6.52	6.51	6.57	0.07	29.72	39.80	28.74	0.25	1.24	1.12	1.12	1.12	1.12
160.00	6.54	6.60	6.56	6.64	0.10	29.28	39.45	28.00	0.25	1.21	1.13	1.13	1.13	1.13
180.00	6.60	6.65	6.61	6.71	0.11	28.85	39.53	27.34	0.34	1.20	1.14	1.14	1.14	1.14
200.00	6.64	6.71	6.68	6.79	0.14	28.10	39.92	26.42	0.33	1.19	1.15	1.15	1.15	1.15



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.
- The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

