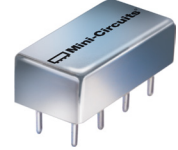


Plug-In

Power Splitter/Combiner

2 Way-180° 50Ω 100 to 600 MHz

PSCJ-2-1W



CASE STYLE: A06

Maximum Ratings

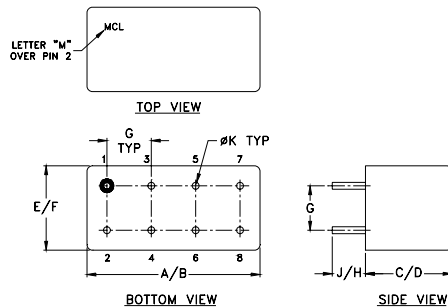
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	0.125W max.

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

Pin Connections

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

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F
.770	.800	.285	.310	.370	.400
19.56	20.32	7.24	7.87	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

- wideband, 100 to 600 MHz
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- rugged shield case

Applications

- VHF/UHF
- signal processing
- push-pull amplifiers

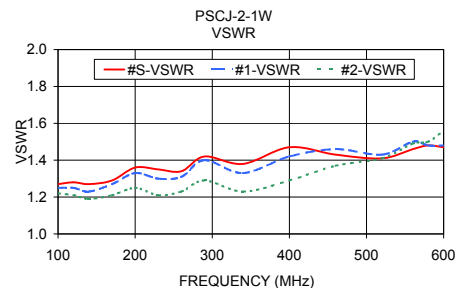
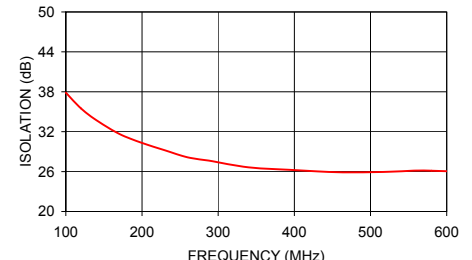
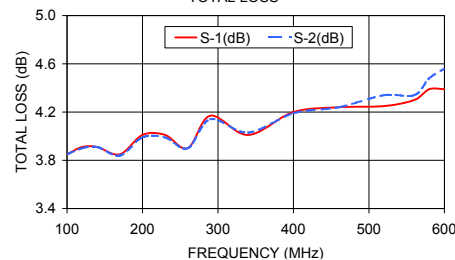
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 3.0 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
$f_L - f_U$	Typ. Min	Typ. Max.	Max.	Max.
100-600	30 20	1.0 1.9	6	0.5

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1 S-2						
100.00	3.85 3.85	0.00	37.86	178.92	1.27	1.25	1.22
120.00	3.91 3.90	0.01	35.49	178.77	1.28	1.25	1.21
140.00	3.91 3.91	0.00	33.73	178.61	1.27	1.23	1.19
170.00	3.85 3.84	0.01	31.67	178.32	1.29	1.27	1.21
200.00	4.01 3.99	0.02	30.31	178.18	1.36	1.33	1.25
230.00	4.01 3.99	0.01	29.20	178.06	1.35	1.30	1.21
260.00	3.90 3.90	0.00	28.14	177.83	1.34	1.31	1.23
290.00	4.17 4.14	0.03	27.60	177.74	1.42	1.40	1.29
340.00	4.01 4.03	0.02	26.64	177.76	1.38	1.33	1.23
400.00	4.20 4.19	0.01	26.22	178.06	1.47	1.42	1.29
460.00	4.24 4.24	0.00	25.90	177.92	1.43	1.46	1.37
520.00	4.25 4.34	0.10	25.96	178.60	1.41	1.43	1.41
560.00	4.30 4.34	0.04	26.15	179.37	1.46	1.50	1.49
580.00	4.39 4.48	0.09	26.13	180.04	1.48	1.48	1.50
600.00	4.39 4.56	0.17	26.05	180.17	1.47	1.48	1.56

1. Total Loss = Insertion Loss + 3dB splitter loss.



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-Circuits' 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

