

Power Splitter/Combiner

PSCJ-2-1W

2 Way-180° 50Ω 100 to 600 MHz

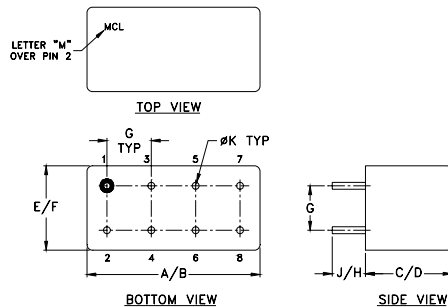
Maximum Ratings

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



Generic photo used for illustration purposes only

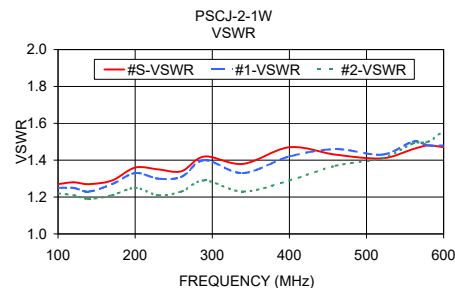
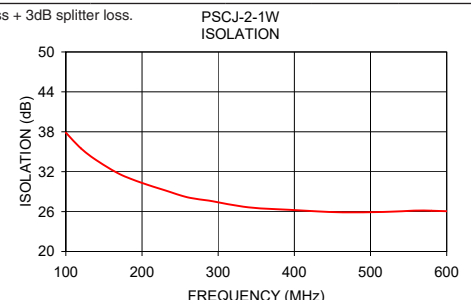
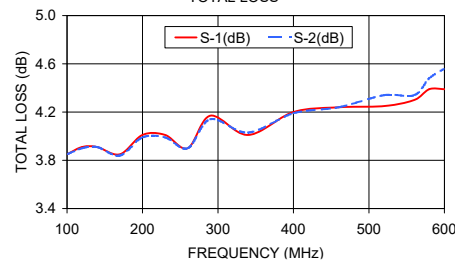
CASE STYLE: A06

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

PSCJ-2-1W TOTAL LOSS
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-Circuit's applicable established test performance criteria and measurement instructions.
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