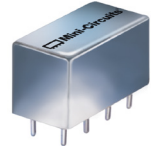


Power Splitter/Combiner

PSCJ-2-2

2 Way-180° 50Ω 0.01 to 20 MHz



CASE STYLE: A01
PRICE: Contact Sales Dept.

Maximum Ratings

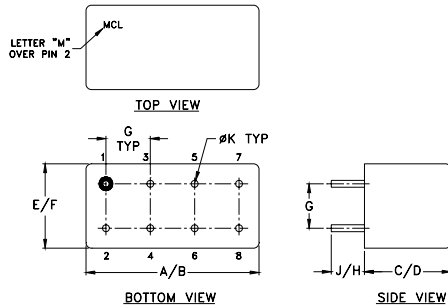
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.25W max.

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	.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, 0.2 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- rugged shield case

Applications

- HF
- signal processing
- push-pull amplifiers
- radio communication

Electrical Specifications

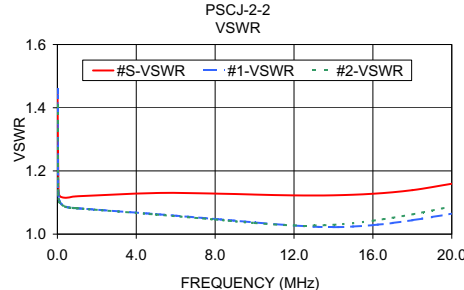
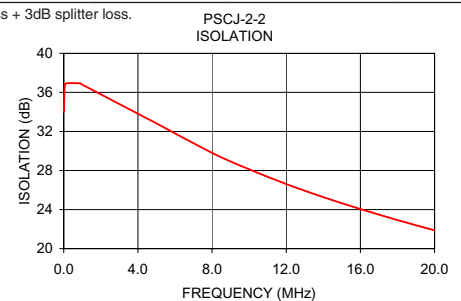
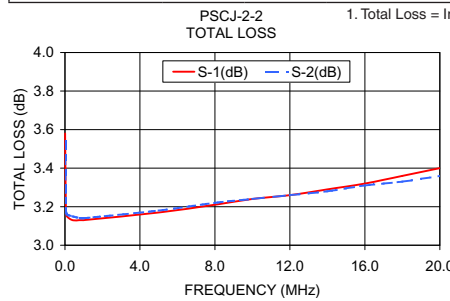
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			
	L		M		U		L		M		U		L	M	U	L	M	U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	
f _L -f _U																			
0.01-20	35	25	30	25	25	18	0.3	0.8	0.2	0.5	0.3	0.6	1*	2	2.5	0.1	0.1	0.2	

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]
At low range frequency band (f_L to 10 f_L), linearly derate maximum input power by 13 dB.
* Phase unbalance is 3 degrees max from f_L to 3 f_L

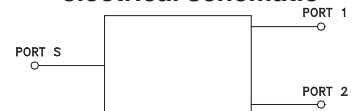
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.01	3.58	3.54	0.05	34.00	178.81	1.46	1.46	1.41
0.05	3.17	3.18	0.01	36.69	179.70	1.15	1.14	1.13
0.10	3.15	3.16	0.01	36.90	179.85	1.12	1.10	1.10
0.40	3.13	3.15	0.01	36.95	179.97	1.12	1.09	1.09
0.80	3.13	3.14	0.01	36.93	179.98	1.12	1.08	1.08
0.90	3.13	3.14	0.01	36.92	179.99	1.12	1.08	1.08
1.00	3.13	3.14	0.01	36.79	179.98	1.12	1.08	1.08
5.00	3.17	3.18	0.01	32.82	179.93	1.13	1.06	1.06
8.00	3.21	3.22	0.00	29.80	179.87	1.13	1.05	1.05
10.00	3.24	3.24	0.00	28.12	179.84	1.13	1.04	1.04
12.00	3.26	3.26	0.01	26.61	179.80	1.12	1.03	1.03
14.00	3.29	3.28	0.01	25.27	179.76	1.12	1.02	1.03
16.00	3.32	3.31	0.02	24.05	179.72	1.13	1.03	1.04
18.00	3.36	3.33	0.03	22.92	179.69	1.14	1.04	1.06
20.00	3.40	3.36	0.03	21.87	179.65	1.16	1.07	1.09

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



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

