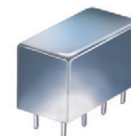


Plug-In

# Power Splitter/Combiner

## PSCJ-2-2

2 Way-180° 50Ω 0.01 to 20 MHz



CASE STYLE: A01  
PRICE: \$39.20 ea. QTY. (1-9)

### Maximum Ratings

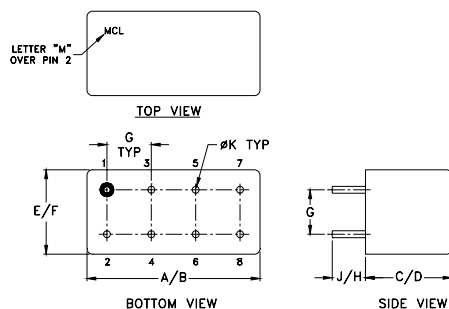
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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	.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	

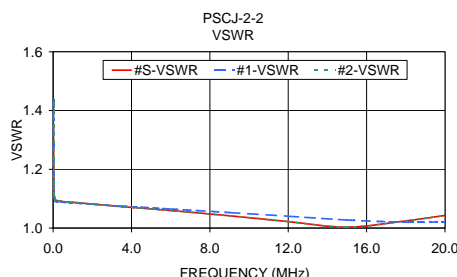
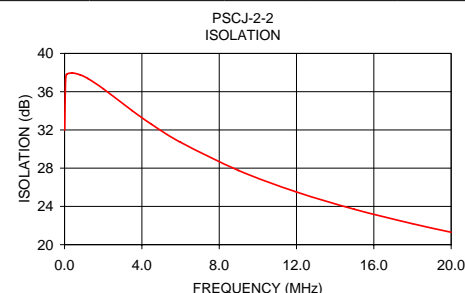
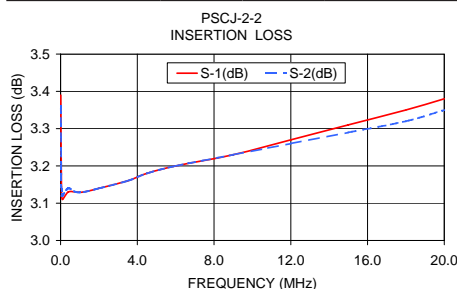
L = low range [ $f_L$  to  $10 f_L$ ] M = mid range [ $10 f_L$  to  $f_U/2$ ] U = upper range [ $f_U/2$  to  $f_U$ ]

At low range frequency band ( $f_L$  to  $10 f_L$ ), linearly derate maximum input power by 13 dB.

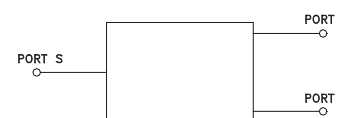
\* Phase unbalance is 3 degrees max from  $f_L$  to  $3 f_L$

### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.01	3.39	3.36	0.02	31.98	179.30	1.43	1.44	1.43
0.05	3.12	3.12	0.00	37.15	179.74	1.12	1.11	1.12
0.10	3.11	3.12	0.01	37.79	179.85	1.10	1.09	1.10
0.40	3.13	3.14	0.01	37.95	180.04	1.09	1.09	1.09
0.80	3.13	3.13	0.01	37.77	180.06	1.09	1.09	1.09
1.20	3.13	3.13	0.01	37.38	180.06	1.09	1.08	1.09
2.00	3.14	3.14	0.01	36.31	180.10	1.08	1.08	1.08
3.50	3.16	3.16	0.00	34.01	180.18	1.07	1.07	1.07
4.50	3.18	3.18	0.00	32.59	180.23	1.07	1.07	1.07
6.00	3.20	3.20	0.00	30.71	180.31	1.06	1.06	1.06
9.00	3.23	3.23	0.00	27.76	180.47	1.04	1.05	1.04
12.00	3.27	3.26	0.01	25.51	180.63	1.02	1.04	1.02
15.00	3.31	3.29	0.02	23.70	180.79	1.00	1.03	1.00
18.00	3.35	3.32	0.02	22.19	180.96	1.02	1.02	1.02
20.00	3.38	3.35	0.03	21.30	181.06	1.04	1.02	1.04



### electrical schematic



**Mini-Circuits**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

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