

Plug-In

# Power Splitter/Combiner

PSC-2-1+

2 Way-0° 50Ω 0.1 to 400 MHz



Generic photo used for illustration purposes only

CASE STYLE: A01

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

## 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

## Features

- wideband, 0.1 to 400 MHz
- low insertion loss, 0.4 dB typ.
- rugged welded construction

## Applications

- VHF/UHF
- federal & defense communications

## 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.
$f_L$ - $f_U$																		
0.1-400	20	15	25	20	25	20	0.2	0.6	0.4	0.75	0.6	1.0	2.0	3.0	4.0	0.15	0.2	0.3

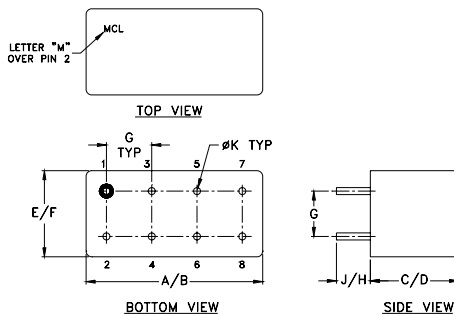
L = low range [ $f_L$  to 10  $f_L$ ] M = mid range [10  $f_L$  to  $f_U/2$ ] U = upper range [ $f_U/2$  to  $f_U$ ]

## Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.10	3.23	3.23	0.00	24.82	0.01	1.16	1.37	1.37
5.00	3.14	3.14	0.00	35.64	0.01	1.10	1.11	1.11
20.00	3.18	3.17	0.00	35.33	0.03	1.11	1.10	1.10
40.00	3.18	3.18	0.00	34.39	0.02	1.12	1.10	1.10
60.00	3.22	3.22	0.00	33.16	0.02	1.12	1.09	1.09
80.00	3.24	3.24	0.00	31.85	0.04	1.13	1.09	1.09
100.00	3.24	3.24	0.00	30.68	0.05	1.13	1.09	1.09
150.00	3.28	3.27	0.00	28.37	0.04	1.14	1.08	1.08
175.00	3.31	3.30	0.01	27.46	0.07	1.14	1.07	1.07
200.00	3.32	3.31	0.01	26.72	0.05	1.15	1.07	1.07
225.00	3.32	3.31	0.01	26.14	0.02	1.15	1.06	1.06
250.00	3.37	3.36	0.01	25.65	0.05	1.15	1.06	1.06
300.00	3.41	3.38	0.03	24.88	0.10	1.15	1.06	1.06
350.00	3.47	3.44	0.03	24.40	0.06	1.16	1.08	1.07
400.00	3.50	3.46	0.04	23.86	0.05	1.18	1.10	1.09

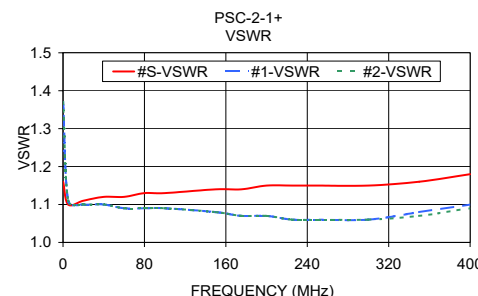
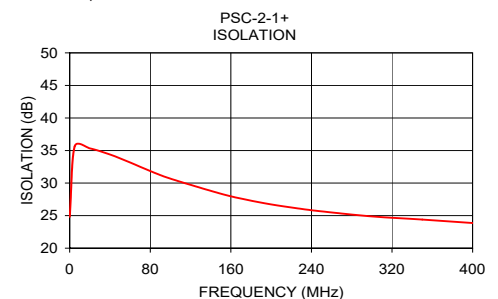
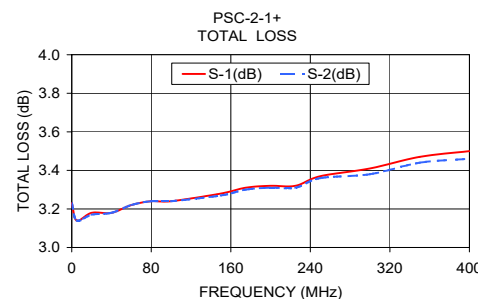
1. Total Loss = Insertion Loss + 3dB splitter loss.

## 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	



## 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.
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