

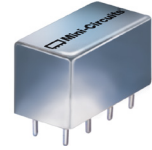
Plug-In

NON-CATALOG

Power Splitter/Combiner

PSC-3-13-39+

3 Way-0° 50Ω 0.5 to 50 MHz



CASE STYLE: A01

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	0.375W max.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

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

Features

- low insertion loss, 0.15 dB typ.
- high isolation, 46 dB typ.
- rugged welded construction

Applications

- HF
- amateur radio
- defense & federal communications

+RoHS Compliant

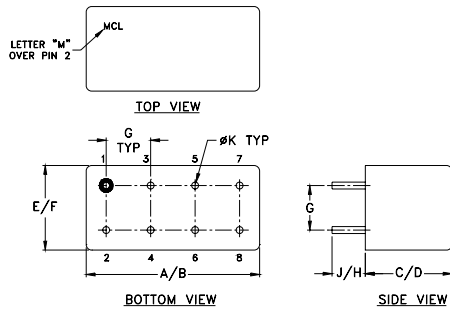
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 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																		
0.5-50	47	33	46	35	40	33	0.15	0.4	0.15	0.4	0.15	0.4	1.0	1.0	2.0	0.1	0.1	0.1

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]

Outline Drawing



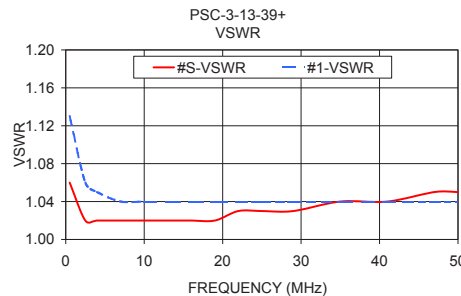
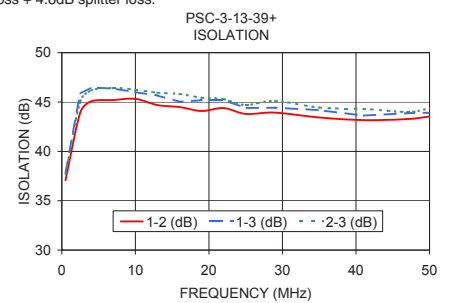
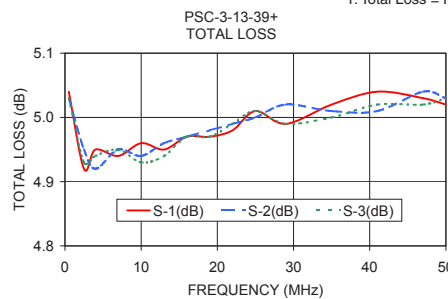
Outline Dimensions (inch/mm)

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	

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
	0.50	5.04	5.03		5.03	0.01	37.06					
2.50	4.92	4.95	4.93	0.02	43.90	45.85	45.04	0.12	1.02	1.06	1.06	1.06
4.00	4.95	4.92	4.94	0.02	45.07	46.47	46.17	0.09	1.02	1.05	1.05	1.05
7.00	4.94	4.95	4.95	0.01	45.20	46.36	46.45	0.13	1.02	1.04	1.04	1.04
10.00	4.96	4.94	4.93	0.03	45.32	46.00	46.24	0.15	1.02	1.04	1.04	1.04
13.00	4.95	4.96	4.94	0.02	44.69	45.67	45.94	0.15	1.02	1.04	1.04	1.04
16.00	4.97	4.97	4.97	0.01	44.49	45.02	45.82	0.27	1.02	1.04	1.04	1.04
19.00	4.97	4.98	4.97	0.01	44.09	45.19	45.43	0.12	1.02	1.04	1.04	1.04
22.00	4.98	4.99	4.99	0.00	44.39	45.19	45.28	0.18	1.03	1.04	1.04	1.04
25.00	5.01	5.00	5.01	0.01	43.80	44.40	44.70	0.34	1.03	1.04	1.04	1.04
29.00	4.99	5.02	4.99	0.02	43.93	44.42	45.12	0.37	1.03	1.04	1.04	1.04
35.00	5.02	5.01	5.00	0.01	43.44	44.18	44.44	0.29	1.04	1.04	1.04	1.04
41.00	5.04	5.01	5.02	0.03	43.17	43.63	44.30	0.38	1.04	1.04	1.04	1.04
47.00	5.03	5.04	5.02	0.01	43.27	43.87	44.00	0.55	1.05	1.04	1.04	1.04
50.00	5.02	5.03	5.03	0.01	43.53	43.92	44.35	0.47	1.05	1.04	1.04	1.04

1. Total Loss = Insertion Loss + 4.8dB 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.
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