

Plug-In

Power Splitter/Combiner

PSCQ-2-51W+

2 Way-90° 50Ω 5 to 50 MHz



Maximum Ratings

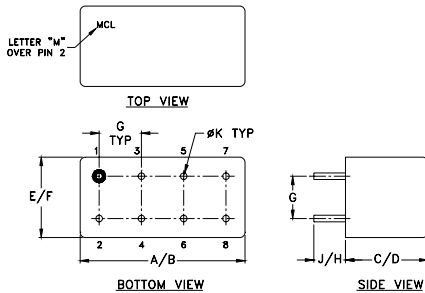
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.

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

Pin Connections

SUMPORT	1
PORT 1 (0°)	5
PORT 2 (+90°)	6
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

- 10:1 bandwidth
- excellent amplitude unbalance, 0.15 dB typ. and phase unbalance, 1.0 deg. typ.
- very low insertion loss, 0.5 dB typ.
- excellent VSWR, 1.21 typ.
- excellent isolation, 41 dB typ.

Applications

- short wave
- land mobile

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) Avg. of Coupled Outputs less 3 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ. Min.	Typ. Max.	Max.	Max.
5-50	41 30	0.5 1.0	5.0	0.5

CASE STYLE: A06
PRICE: \$39.95 ea. QTY (1-9)

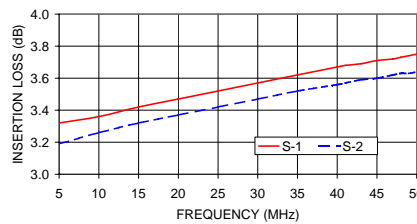
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

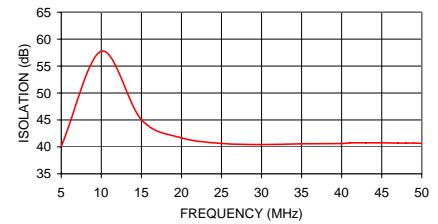
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
5.00	3.32	3.19	0.13	40.09	89.18	1.18	1.31	1.03
10.00	3.36	3.26	0.10	57.75	87.49	1.15	1.21	1.08
15.00	3.42	3.32	0.10	45.05	87.36	1.17	1.17	1.15
20.00	3.47	3.37	0.10	41.67	88.47	1.20	1.16	1.21
25.00	3.52	3.42	0.10	40.64	89.30	1.23	1.18	1.25
30.00	3.57	3.47	0.10	40.43	89.51	1.26	1.21	1.28
35.00	3.62	3.52	0.10	40.57	89.16	1.29	1.25	1.29
40.00	3.67	3.56	0.10	40.61	88.38	1.32	1.28	1.28
41.00	3.68	3.57	0.10	40.75	88.19	1.32	1.29	1.28
43.00	3.69	3.59	0.10	40.75	87.78	1.33	1.30	1.28
45.00	3.71	3.60	0.10	40.75	87.34	1.34	1.31	1.27
47.00	3.72	3.62	0.10	40.71	86.89	1.35	1.32	1.27
48.00	3.73	3.63	0.10	40.70	86.65	1.35	1.33	1.26
49.00	3.74	3.63	0.10	40.71	86.42	1.35	1.34	1.26
50.00	3.75	3.64	0.10	40.65	86.19	1.36	1.34	1.26

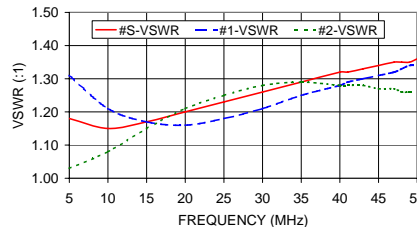
PSCQ-2-51W+ INSERTION LOSS



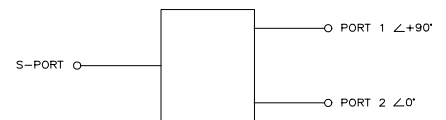
PSCQ-2-51W+ ISOLATION



PSCQ-2-51W+ VSWR



electrical schematic



For detailed performance specs & shopping online see web site

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