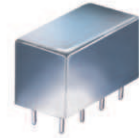


Plug-In

Power Splitter/Combiner

PSCQ-2-7.5+

2 Way-90° 50Ω 7 to 8 MHz



Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

SUM PORT	1
PORT 1 (+90°)	2
PORT 2 (0°)	5
GROUND	3,4,7,8
CASE GROUND	3,4,7,8
50 OHM TERM EXTERNAL	6

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 30 dB typ.
- excellent VSWR, 1.10:1 typ.
- rugged shielded case

Applications

- modulators
- balanced amplifiers

CASE STYLE: A01
PRICE: \$15.95 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.

Electrical Specifications

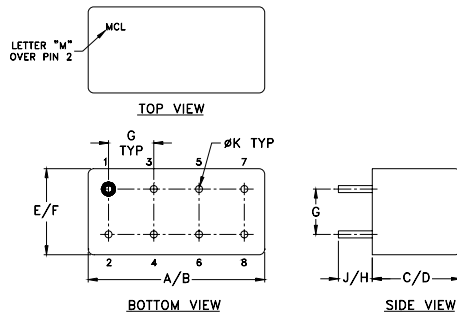
FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ. Min.	Typ. Max.	Max.	Max.
7-8	30 25	0.4 0.7	3	1.2

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						
7.00	3.38	2.83	0.55	29.12	91.10	1.06	1.05	1.06
7.03	3.37	2.85	0.52	29.12	91.14	1.06	1.05	1.06
7.13	3.31	2.90	0.40	29.11	91.09	1.06	1.05	1.06
7.23	3.24	2.96	0.28	29.11	91.11	1.06	1.05	1.06
7.30	3.19	3.01	0.19	29.12	91.09	1.06	1.05	1.06
7.38	3.15	3.05	0.10	29.11	91.12	1.06	1.06	1.06
7.45	3.11	3.09	0.02	29.11	91.10	1.06	1.06	1.06
7.53	3.07	3.14	0.07	29.12	91.13	1.06	1.06	1.06
7.60	3.03	3.18	0.16	29.12	91.11	1.06	1.06	1.06
7.68	2.99	3.22	0.24	29.12	91.09	1.06	1.06	1.06
7.75	2.94	3.27	0.32	29.12	91.06	1.06	1.06	1.06
7.83	2.91	3.31	0.40	29.13	91.08	1.06	1.06	1.06
7.90	2.87	3.36	0.49	29.14	91.09	1.06	1.06	1.06
7.98	2.83	3.40	0.57	29.14	91.13	1.06	1.06	1.06
8.00	2.82	3.41	0.59	29.15	91.09	1.06	1.06	1.06

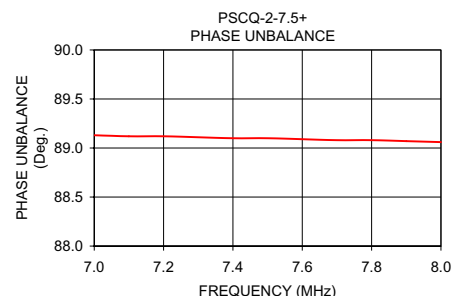
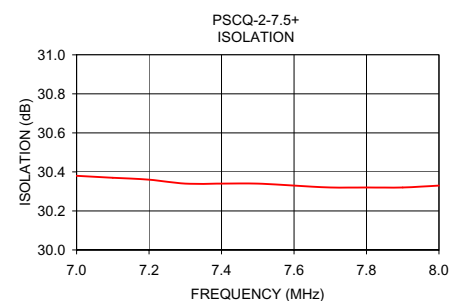
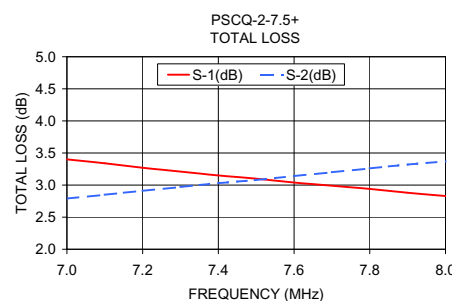
1. Total Loss = Insertion Loss + 3dB splitter loss.

Outline Drawing

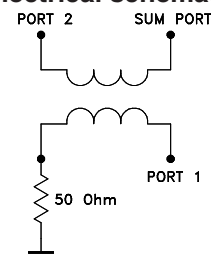


Outline Dimensions (inch/mm)

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



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