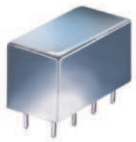
Plug-In

Power Splitter/Combiner

PQW-2-270+

2 Way-90° 50Ω 90 to 270 MHz



CASE STYLE: A01
PRICE: $34.20 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.

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

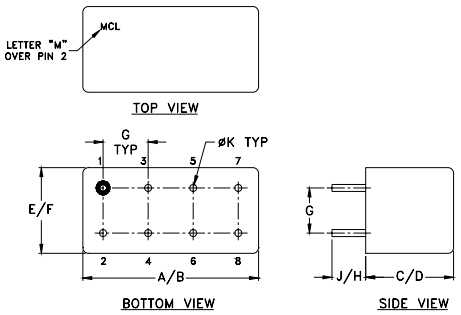
Features

- wideband, 90 to 270 MHz
- low insertion loss, 0.4 dB typ.
- rugged shielded case

Applications

- power combiners
- modulators
- image reject mixers

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 Specifications

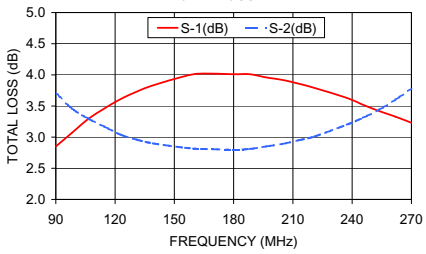
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
90-270	20	17	0.4	0.7	4	1.4

Typical Performance Data

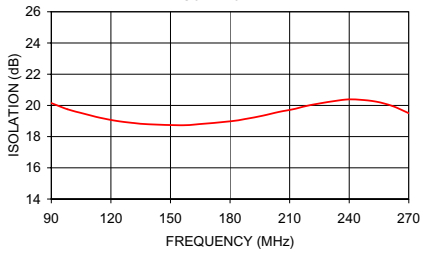
Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
90.00	2.85	3.71	0.86	20.15	89.86	1.17	1.22	1.20
98.18	3.07	3.46	0.39	19.75	89.99	1.18	1.24	1.21
106.36	3.29	3.30	0.01	19.47	89.98	1.19	1.26	1.22
114.54	3.46	3.17	0.29	19.21	90.09	1.20	1.27	1.23
122.72	3.61	3.04	0.57	19.01	90.15	1.21	1.29	1.24
130.90	3.73	2.96	0.77	18.88	90.17	1.22	1.30	1.25
139.09	3.83	2.90	0.93	18.79	90.20	1.22	1.31	1.25
155.45	3.98	2.83	1.15	18.73	90.18	1.22	1.33	1.25
163.63	4.02	2.81	1.21	18.79	90.14	1.22	1.33	1.25
180.00	4.01	2.80	1.21	18.98	90.09	1.20	1.33	1.24
188.18	4.01	2.81	1.20	19.14	89.99	1.19	1.33	1.22
196.36	3.96	2.85	1.11	19.34	89.90	1.18	1.32	1.21
204.54	3.92	2.89	1.03	19.58	89.75	1.17	1.31	1.19
212.72	3.86	2.95	0.91	19.78	89.66	1.15	1.30	1.17
220.90	3.79	3.01	0.78	20.03	89.54	1.14	1.28	1.15
237.27	3.63	3.20	0.43	20.36	89.25	1.13	1.26	1.09
245.45	3.52	3.31	0.21	20.36	89.13	1.13	1.25	1.06
253.63	3.42	3.44	0.02	20.24	89.23	1.16	1.24	1.03
261.81	3.33	3.60	0.27	19.96	89.11	1.19	1.25	1.03
270.00	3.23	3.78	0.55	19.50	89.15	1.23	1.26	1.07

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

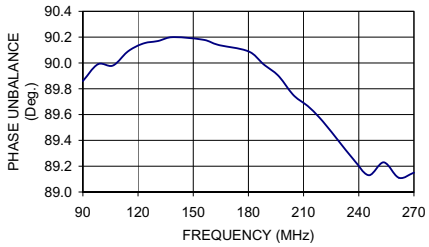
PQW-2-270+
TOTAL LOSS



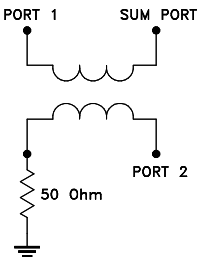
PQW-2-270+
ISOLATION



PQW-2-270+
PHASE UNBALANCE



electrical schematic



For detailed performance specs & shopping online see web site

REV. C
M127604
PQW-2-270+
ED-4219
HY/TD/CP
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