

Surface Mount Power Splitter/Combiner

RPQ-820

2 Way-90° 50Ω 760 to 860 MHz



CASE STYLE: TT240
PRICE: \$13.95 ea. QTY (1-9)

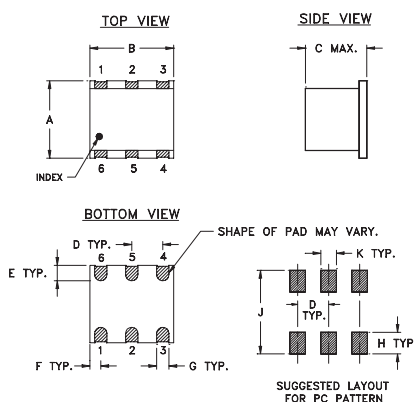
Maximum Ratings

Operating Temperature	-40°C to 85°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	4
PORT 1 (0°)	1
PORT 2 (+90°)	3
GROUND	2,5
50 OHM TERM EXTERNAL	6

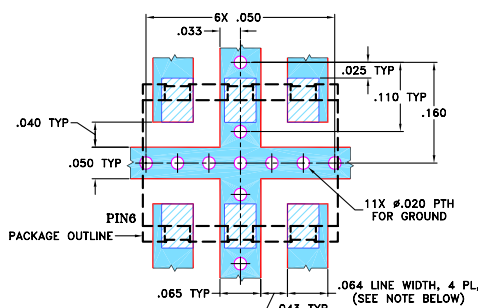
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	
.250	.31	.20	.100	.050	.055	
6.35	7.87	5.08	2.54	1.27	1.40	
G	H	J	K			wt
.040	.070	.270	.050			grams
1.02	1.78	6.86	1.27			0.50

Demo Board MCL P/N: TB-210 Suggested PCB Layout (PL-111)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS 0.030" ± 0.002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

Features

- low insertion loss, 0.15 dB typ.
- good isolation, 22 dB typ.

Applications

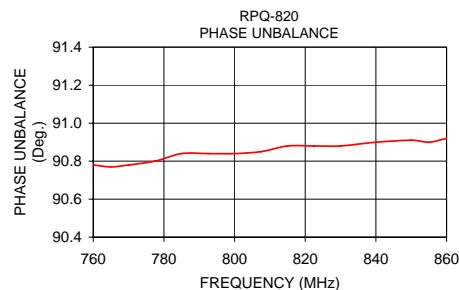
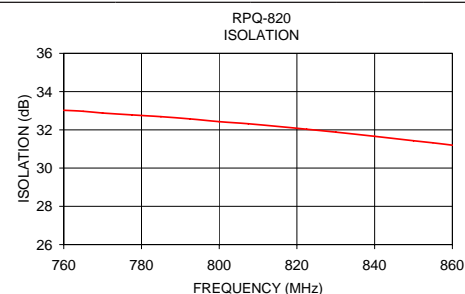
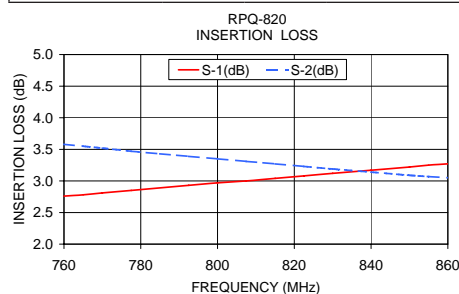
- UHF
- modulators
- image rejection mixers

Electrical Specifications

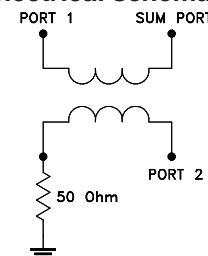
FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) Avg. of Coupled Outputs less 3 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ. Min.	Typ. Max.	Max.	Max.
760-860	22 15	0.15 0.7	4	1

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						
760.00	2.76	3.58	0.82	33.02	90.78	1.072	1.094	1.061
765.00	2.78	3.55	0.76	32.97	90.77	1.073	1.094	1.061
770.00	2.81	3.52	0.71	32.88	90.78	1.073	1.094	1.061
777.50	2.85	3.47	0.62	32.78	90.80	1.074	1.095	1.062
785.00	2.89	3.43	0.54	32.69	90.84	1.074	1.095	1.063
792.50	2.93	3.39	0.46	32.57	90.84	1.075	1.095	1.064
800.00	2.97	3.35	0.38	32.43	90.84	1.076	1.096	1.065
807.50	3.00	3.31	0.31	32.32	90.85	1.077	1.097	1.065
815.00	3.04	3.27	0.22	32.18	90.88	1.078	1.097	1.066
822.50	3.08	3.23	0.15	32.03	90.88	1.079	1.098	1.068
830.00	3.12	3.19	0.08	31.88	90.88	1.080	1.098	1.069
840.00	3.17	3.14	0.03	31.66	90.90	1.082	1.099	1.070
850.00	3.22	3.09	0.13	31.43	90.91	1.083	1.100	1.071
855.00	3.25	3.07	0.18	31.32	90.90	1.084	1.100	1.071
860.00	3.27	3.05	0.23	31.20	90.92	1.085	1.100	1.072



electrical schematic



For detailed performance specs & shopping online see web site



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