

QCN-12+
QCN-12



CASE STYLE: FV1206-1
PRICE: \$3.95 ea. QTY (20)

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

* Derate linearly to 7W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded

Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500, 1000, 3000

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

Suggested Layout

Tolerance to be within $\pm .007$

A	B	C	D	E	F
.126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28
G	H	J	K		wt
.039	.024	.042	.123		grams
0.99	0.61	1.07	3.12		.020

NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.020" ± 0.0015". 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.

	DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
	DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

- low insertion loss, 0.4 dB typ.
- wrap-around terminal for excellent solderability
- ultra small, 0.12"X0.06"X0.035"

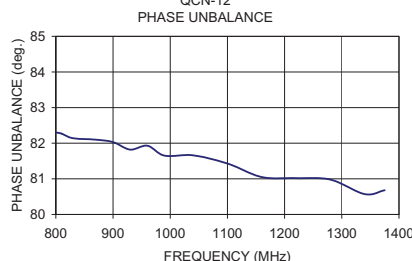
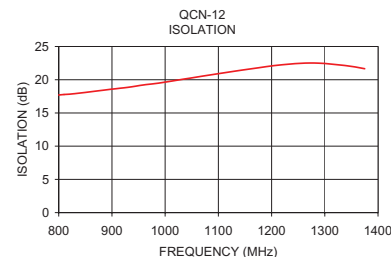
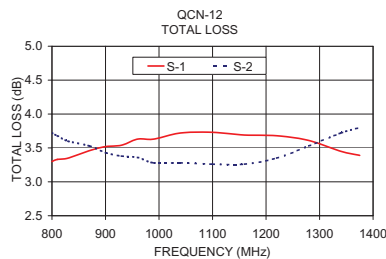
- cellular
- satellite distribution
- GSM
- balanced amplifiers
- modulators

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)
f_L - f_U	Typ. Min.	Typ. Max.	Typ. Max.	Typ. Max.	Typ.
800-1375					
800-1000	19 14	0.4 0.8	9 12	0.4 0.9	1.3
1000-1375	19 14	0.6 1.0	9 13	0.7 1.0	1.5

1. For applications requiring DC voltage to be applied to the RF ports, add suffix letter "D" to part no.
DC resistance to ground is 100 Mohms min.

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
800.00	3.30	3.72	0.42	17.70	82.30	1.26	1.31	1.31
810.00	3.33	3.68	0.35	17.77	82.27	1.26	1.31	1.31
830.00	3.35	3.60	0.24	17.90	82.14	1.25	1.31	1.31
870.00	3.46	3.53	0.07	18.29	82.10	1.24	1.30	1.31
900.00	3.52	3.43	0.08	18.58	82.03	1.22	1.29	1.31
930.00	3.54	3.38	0.16	18.85	81.82	1.21	1.29	1.30
960.00	3.63	3.36	0.27	19.22	81.93	1.20	1.28	1.30
990.00	3.63	3.28	0.35	19.52	81.65	1.19	1.28	1.31
1040.00	3.72	3.28	0.44	20.15	81.66	1.17	1.27	1.31
1100.00	3.73	3.26	0.46	20.91	81.43	1.15	1.27	1.32
1160.00	3.69	3.26	0.44	21.62	81.05	1.13	1.27	1.33
1220.00	3.68	3.35	0.33	22.25	81.02	1.12	1.28	1.36
1280.00	3.61	3.53	0.08	22.51	80.98	1.12	1.29	1.39
1340.00	3.45	3.72	0.27	22.12	80.57	1.14	1.31	1.44
1375.00	3.39	3.8	0.42	21.66	80.68	1.17	1.33	1.47

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



For detailed performance specs
& shopping online see web site



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