

QCN-12+

CASE STYLE F·FV1206-1

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

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

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	

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

Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MC/Store/terms_iso

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

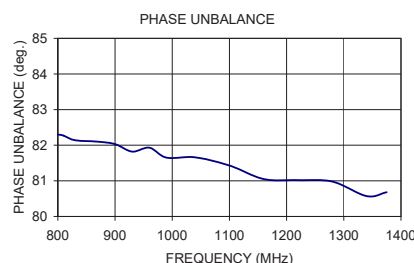
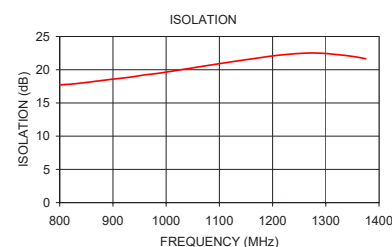
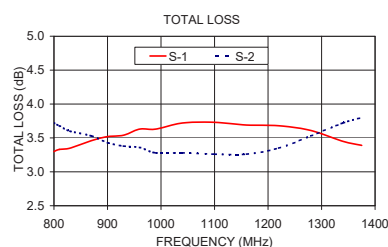
- cellular
- satellite distribution
- GSM
- balanced amplifiers
- modulators

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 Loss¹ (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



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