

QCN-27

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

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

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/MCStore/terms.html.

- low insertion loss, 0.4 dB typ.
- high isolation, 26 dB typ.
- wrap-around terminal for excellent solderability
- ultra small, 0.12"X0.06"X0.035"
- patent pending

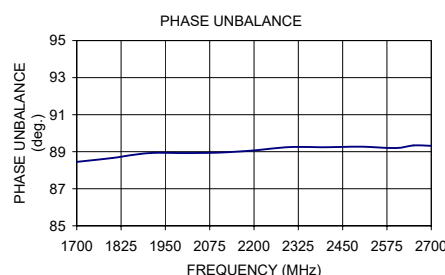
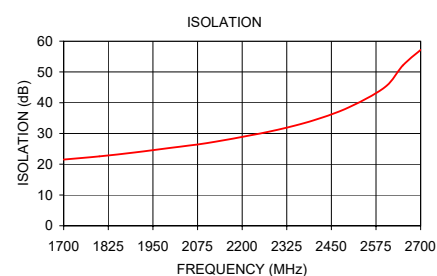
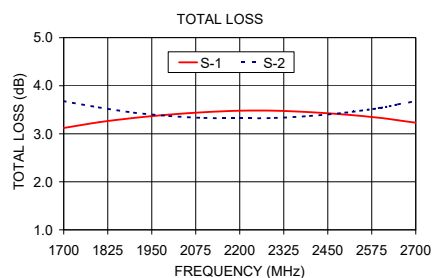
- PCS/DCS
- MMDS
- ISM
- balanced amplifiers
- modulators

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.
1700-2700					
1700-1800	21 18	0.4 0.7	3 6	0.5 1.0	1.2
1800-2000	22 18	0.4 0.7	2 6	0.3 0.8	1.2
2000-2400	30 20	0.4 0.7	3 6	0.2 0.8	1.2
2400-2700	30 20	0.5 0.9	3 6	0.6 1.0	1.2

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						
1700.00	3.12	3.68	0.56	21.52	88.45	1.23	1.26	1.19
1800.00	3.24	3.55	0.31	22.55	88.66	1.21	1.24	1.17
1900.00	3.33	3.44	0.12	23.84	88.92	1.18	1.23	1.14
2000.00	3.40	3.37	0.03	25.33	88.93	1.16	1.21	1.12
2100.00	3.45	3.33	0.12	26.85	88.95	1.14	1.20	1.10
2200.00	3.48	3.32	0.16	28.90	89.07	1.12	1.19	1.09
2300.00	3.48	3.33	0.15	31.22	89.25	1.10	1.18	1.09
2400.00	3.45	3.37	0.08	34.26	89.24	1.08	1.17	1.10
2500.00	3.40	3.44	0.04	38.56	89.27	1.06	1.17	1.11
2600.00	3.33	3.54	0.22	45.07	89.20	1.04	1.16	1.12
2650.00	3.28	3.61	0.33	52.09	89.34	1.03	1.16	1.13
2700.00	3.23	3.68	0.45	57.17	89.32	1.01	1.16	1.14

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



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M158161
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ED-10849/5
AD/RS/CP/AM
160920

2 Way-90° Power Splitter/Combiner

QCN-27

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
900	1.61	6.19	4.58	3.15	18.98	1.27	1.26	1.27
950	1.72	5.91	4.19	3.15	18.95	1.27	1.27	1.27
1000	1.82	5.66	3.83	3.12	19.00	1.27	1.27	1.27
1100	2.03	5.21	3.18	3.04	19.16	1.27	1.26	1.26
1150	2.13	5.01	2.88	2.97	19.31	1.26	1.26	1.26
1200	2.23	4.82	2.60	2.90	19.48	1.26	1.26	1.25
1250	2.32	4.66	2.34	2.82	19.67	1.25	1.25	1.24
1300	2.41	4.50	2.09	2.74	19.92	1.24	1.25	1.24
1350	2.50	4.36	1.86	2.68	20.15	1.23	1.24	1.23
1400	2.58	4.23	1.65	2.60	20.45	1.23	1.23	1.22
1450	2.66	4.11	1.44	2.53	20.76	1.22	1.22	1.21
1500	2.74	4.00	1.26	2.46	21.04	1.21	1.22	1.20
1600	2.89	3.80	0.91	2.31	21.79	1.19	1.20	1.18
1650	2.95	3.71	0.76	2.30	22.22	1.18	1.19	1.17
1700	3.02	3.64	0.62	2.22	22.68	1.17	1.18	1.16
1750	3.08	3.57	0.49	2.17	23.14	1.16	1.17	1.15
1800	3.13	3.50	0.37	2.14	23.66	1.16	1.16	1.13
1850	3.18	3.45	0.27	2.09	24.23	1.15	1.15	1.12
1900	3.22	3.40	0.17	2.05	24.83	1.14	1.14	1.11
1950	3.26	3.36	0.09	2.01	25.54	1.13	1.13	1.11
2000	3.30	3.32	0.03	1.99	26.30	1.12	1.12	1.10
2050	3.33	3.29	0.03	1.96	27.01	1.11	1.11	1.09
2100	3.36	3.27	0.08	1.95	28.02	1.10	1.10	1.08
2150	3.38	3.26	0.12	1.94	28.99	1.09	1.10	1.07
2200	3.39	3.25	0.15	1.92	30.19	1.08	1.09	1.07
2300	3.41	3.25	0.16	1.88	33.06	1.07	1.07	1.06
2350	3.41	3.26	0.15	1.86	34.91	1.06	1.06	1.06
2400	3.40	3.27	0.13	1.84	37.08	1.05	1.06	1.06
2450	3.39	3.29	0.09	1.84	39.58	1.05	1.05	1.07
2500	3.37	3.32	0.05	1.83	41.74	1.04	1.04	1.07
2550	3.35	3.36	0.01	1.81	41.44	1.04	1.03	1.08
2600	3.32	3.40	0.09	1.81	39.51	1.04	1.03	1.08
2650	3.28	3.46	0.17	1.74	36.98	1.04	1.03	1.09
2700	3.24	3.52	0.27	1.69	35.03	1.04	1.03	1.10
2750	3.20	3.58	0.38	1.65	33.34	1.04	1.03	1.11
2800	3.15	3.66	0.51	1.60	31.80	1.05	1.04	1.12
2850	3.09	3.74	0.65	1.56	30.83	1.06	1.05	1.13
2900	3.03	3.84	0.81	1.46	29.72	1.07	1.06	1.14
3000	2.89	4.06	1.17	1.26	28.19	1.10	1.08	1.17
3050	2.82	4.19	1.37	1.11	27.45	1.11	1.09	1.17
3100	2.74	4.34	1.59	0.99	26.70	1.12	1.10	1.19
3150	2.66	4.50	1.84	0.83	26.11	1.14	1.12	1.20
3200	2.58	4.67	2.09	0.66	25.49	1.15	1.13	1.22
3250	2.49	4.86	2.37	0.45	24.93	1.17	1.15	1.23
3300	2.40	5.07	2.67	0.20	24.43	1.18	1.16	1.24
3350	2.31	5.30	2.99	0.06	23.93	1.20	1.18	1.26
3400	2.22	5.56	3.34	0.34	23.53	1.22	1.19	1.27
3450	2.12	5.84	3.71	0.67	23.11	1.23	1.21	1.29
3500	2.03	6.15	4.11	1.01	22.70	1.25	1.23	1.30
3550	1.94	6.49	4.55	1.42	22.38	1.27	1.25	1.32
3600	1.85	6.86	5.01	1.91	22.03	1.29	1.27	1.33
3700	1.67	7.73	6.06	3.09	21.45	1.32	1.30	1.37
3750	1.59	8.23	6.65	3.79	21.19	1.34	1.32	1.38
3800	1.50	8.80	7.29	4.59	20.90	1.36	1.34	1.39

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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QCN-27

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Page 1 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant

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The Design Engineers Search Engine finds the model you need, instantly • For detailed performance specs & shopping online see



2 Way-90° Power Splitter/Combiner

QCN-27

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = -55°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
900	1.46	6.06	4.60	3.38	18.71	1.27	1.27	1.28
950	1.57	5.78	4.21	3.42	18.65	1.28	1.28	1.28
1000	1.67	5.53	3.85	3.47	18.57	1.28	1.28	1.29
1100	1.87	5.07	3.20	3.54	18.69	1.28	1.29	1.29
1150	1.97	4.88	2.91	3.48	18.72	1.28	1.29	1.29
1200	2.06	4.69	2.63	3.50	18.72	1.29	1.29	1.29
1250	2.15	4.53	2.38	3.48	18.80	1.28	1.29	1.29
1300	2.23	4.38	2.14	3.36	19.01	1.28	1.28	1.28
1350	2.31	4.23	1.92	3.31	19.32	1.27	1.28	1.28
1400	2.39	4.10	1.71	3.19	19.52	1.26	1.26	1.27
1450	2.46	3.97	1.51	3.11	19.77	1.25	1.26	1.26
1500	2.53	3.86	1.33	3.02	20.04	1.24	1.25	1.25
1600	2.66	3.65	0.99	2.79	20.78	1.21	1.23	1.22
1650	2.72	3.55	0.83	2.74	21.27	1.20	1.21	1.20
1700	2.78	3.46	0.68	2.66	21.70	1.19	1.21	1.19
1750	2.83	3.38	0.55	2.56	22.20	1.18	1.19	1.16
1800	2.88	3.31	0.42	2.52	22.74	1.17	1.17	1.14
1850	2.93	3.24	0.31	2.45	23.47	1.15	1.15	1.12
1900	2.97	3.18	0.21	2.43	24.13	1.14	1.13	1.10
1950	3.01	3.12	0.11	2.43	24.89	1.13	1.12	1.08
2000	3.05	3.08	0.04	2.47	26.02	1.12	1.11	1.06
2050	3.08	3.04	0.04	2.48	26.72	1.12	1.10	1.04
2100	3.10	3.01	0.09	2.53	27.76	1.11	1.08	1.02
2150	3.12	2.99	0.14	2.62	29.30	1.10	1.07	1.02
2200	3.14	2.97	0.17	2.69	30.60	1.10	1.06	1.04
2300	3.15	2.96	0.19	2.78	32.50	1.08	1.03	1.08
2350	3.15	2.97	0.17	2.84	32.97	1.08	1.02	1.10
2400	3.13	2.99	0.14	2.93	32.79	1.07	1.01	1.13
2450	3.11	3.01	0.10	2.91	32.10	1.06	1.02	1.15
2500	3.09	3.04	0.05	2.91	30.91	1.05	1.04	1.17
2550	3.07	3.08	0.01	2.91	29.31	1.05	1.05	1.19
2600	3.03	3.13	0.10	2.90	27.79	1.04	1.06	1.21
2650	2.99	3.19	0.19	2.77	27.00	1.04	1.08	1.24
2700	2.96	3.24	0.28	2.64	26.31	1.04	1.09	1.26
2750	2.92	3.32	0.40	2.53	25.24	1.07	1.11	1.28
2800	2.87	3.39	0.52	2.34	24.49	1.08	1.13	1.31
2850	2.82	3.47	0.64	2.20	23.99	1.10	1.14	1.33
2900	2.78	3.55	0.77	2.00	23.63	1.11	1.16	1.34
3000	2.66	3.73	1.07	1.77	23.10	1.14	1.18	1.35
3050	2.60	3.83	1.23	1.63	23.03	1.14	1.18	1.36
3100	2.53	3.94	1.41	1.55	22.86	1.14	1.19	1.35
3150	2.46	4.06	1.61	1.53	22.83	1.14	1.19	1.35
3200	2.36	4.20	1.84	1.63	23.20	1.13	1.17	1.34
3250	2.27	4.37	2.10	1.62	23.15	1.14	1.17	1.34
3300	2.18	4.54	2.36	1.63	23.27	1.12	1.17	1.33
3350	2.07	4.72	2.65	1.65	23.82	1.10	1.17	1.29
3400	1.95	4.94	2.99	1.67	24.30	1.09	1.16	1.27
3450	1.83	5.19	3.36	1.64	24.78	1.08	1.14	1.25
3500	1.71	5.46	3.75	1.54	25.20	1.07	1.13	1.22
3550	1.60	5.77	4.18	1.41	25.87	1.07	1.13	1.19
3600	1.47	6.12	4.65	1.23	26.32	1.09	1.13	1.16
3700	1.25	6.94	5.69	0.62	26.76	1.12	1.12	1.10
3750	1.14	7.42	6.28	0.29	26.48	1.15	1.12	1.06
3800	1.04	7.96	6.92	0.17	25.69	1.18	1.13	1.06

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

REV. X2
QCN-27
100627

Page 2 of 3

2 Way-90° Power Splitter/Combiner

QCN-27

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +100°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
900	1.67	6.23	4.56	2.83	19.52	1.27	1.26	1.26
950	1.78	5.95	4.17	2.76	19.55	1.26	1.26	1.26
1000	1.89	5.69	3.80	2.69	19.70	1.26	1.25	1.25
1100	2.10	5.23	3.13	2.57	20.02	1.24	1.24	1.22
1150	2.20	5.03	2.83	2.45	20.28	1.23	1.23	1.21
1200	2.30	4.84	2.55	2.36	20.59	1.22	1.22	1.20
1250	2.40	4.67	2.28	2.25	20.87	1.21	1.21	1.19
1300	2.49	4.52	2.02	2.18	21.18	1.20	1.20	1.17
1350	2.58	4.37	1.79	2.13	21.45	1.19	1.19	1.16
1400	2.67	4.25	1.57	2.05	21.84	1.18	1.18	1.15
1450	2.76	4.13	1.36	2.01	22.24	1.17	1.17	1.14
1500	2.84	4.02	1.17	1.96	22.56	1.16	1.16	1.13
1600	3.01	3.83	0.82	1.85	23.46	1.15	1.15	1.12
1650	3.08	3.75	0.67	1.82	23.93	1.14	1.14	1.12
1700	3.15	3.68	0.53	1.79	24.32	1.13	1.13	1.12
1750	3.22	3.62	0.40	1.74	24.62	1.13	1.13	1.13
1800	3.28	3.57	0.29	1.74	24.98	1.13	1.13	1.13
1850	3.33	3.52	0.19	1.73	25.37	1.12	1.13	1.14
1900	3.38	3.49	0.11	1.71	25.66	1.12	1.13	1.15
1950	3.42	3.45	0.03	1.69	25.97	1.12	1.13	1.16
2000	3.46	3.43	0.03	1.70	26.17	1.12	1.13	1.17
2050	3.50	3.41	0.08	1.69	26.28	1.12	1.13	1.17
2100	3.53	3.40	0.12	1.67	26.52	1.12	1.13	1.18
2150	3.55	3.40	0.15	1.65	26.65	1.11	1.13	1.19
2200	3.57	3.40	0.17	1.60	26.87	1.11	1.13	1.19
2300	3.58	3.42	0.16	1.55	27.32	1.10	1.14	1.20
2350	3.58	3.44	0.14	1.49	27.60	1.10	1.13	1.20
2400	3.57	3.46	0.11	1.44	27.97	1.10	1.13	1.20
2450	3.55	3.49	0.06	1.38	28.43	1.09	1.13	1.20
2500	3.53	3.53	0.01	1.30	28.93	1.08	1.12	1.19
2550	3.51	3.57	0.06	1.22	29.31	1.08	1.12	1.18
2600	3.47	3.62	0.14	1.14	29.58	1.07	1.12	1.17
2650	3.43	3.67	0.24	1.02	30.12	1.06	1.11	1.17
2700	3.39	3.73	0.34	0.90	30.73	1.05	1.11	1.16
2750	3.35	3.80	0.46	0.80	31.15	1.05	1.11	1.14
2800	3.30	3.89	0.59	0.65	31.28	1.05	1.10	1.13
2850	3.24	3.97	0.73	0.55	31.21	1.06	1.10	1.11
2900	3.18	4.07	0.89	0.42	31.05	1.07	1.09	1.09
3000	3.04	4.29	1.25	0.22	29.99	1.09	1.07	1.05
3050	2.97	4.42	1.45	0.12	29.25	1.11	1.05	1.04
3100	2.90	4.57	1.67	0.08	28.21	1.13	1.04	1.03
3150	2.82	4.74	1.92	0.00	27.16	1.16	1.02	1.05
3200	2.75	4.94	2.19	0.04	26.10	1.19	1.01	1.09
3250	2.67	5.16	2.49	0.14	25.19	1.21	1.04	1.13
3300	2.58	5.40	2.82	0.20	24.36	1.24	1.07	1.17
3350	2.49	5.68	3.19	0.31	23.49	1.27	1.12	1.22
3400	2.41	6.00	3.59	0.53	22.81	1.31	1.17	1.28
3450	2.32	6.35	4.03	0.84	22.14	1.35	1.22	1.35
3500	2.25	6.76	4.51	1.24	21.49	1.40	1.28	1.42
3550	2.18	7.20	5.01	1.79	20.98	1.46	1.35	1.50
3600	2.11	7.70	5.59	2.58	20.51	1.51	1.41	1.59
3700	2.02	8.81	6.79	4.76	19.97	1.64	1.56	1.77
3750	1.98	9.45	7.47	6.19	19.70	1.70	1.64	1.86
3800	1.95	10.12	8.18	7.76	19.48	1.76	1.71	1.94

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

REV. X2
QCN-27
100627

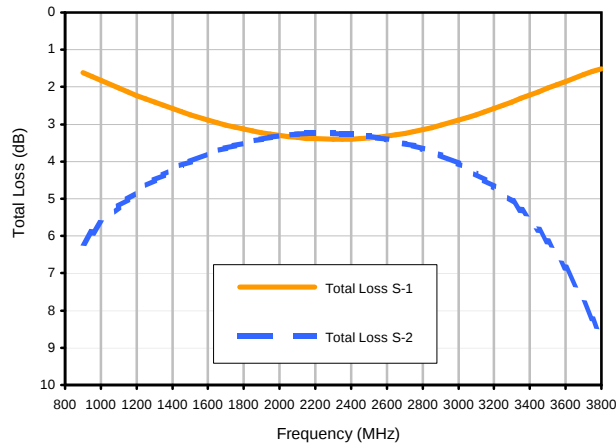
Page 3 of 3

2 Way-90° Power Splitter/Combiner

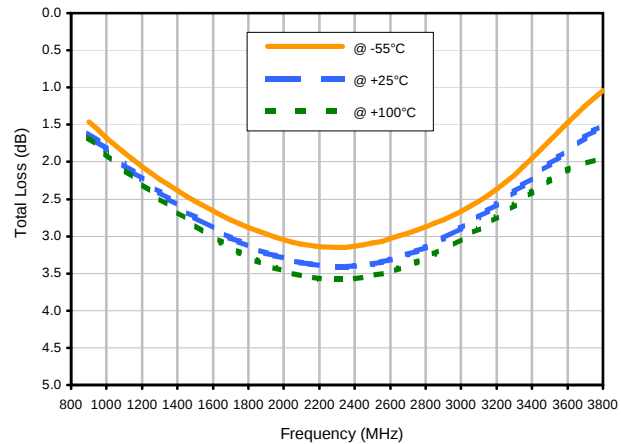
QCN-27

Typical Performance Curves

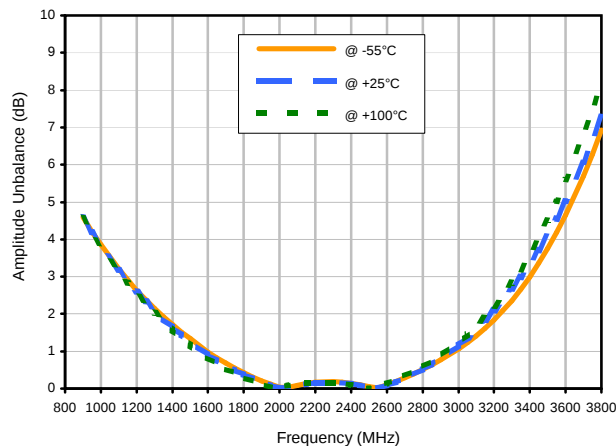
Total Loss



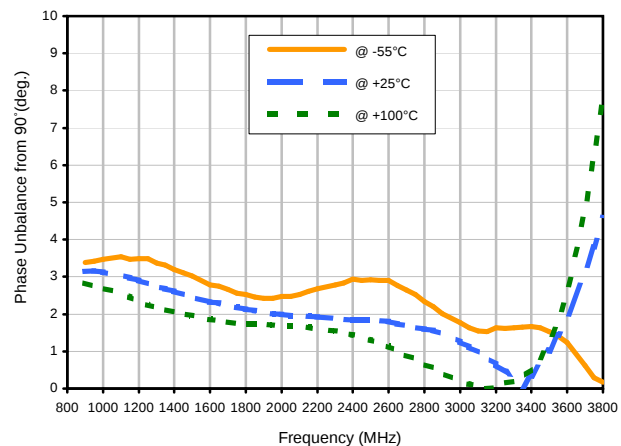
Total Loss S-1 vs. TEMPERATURE



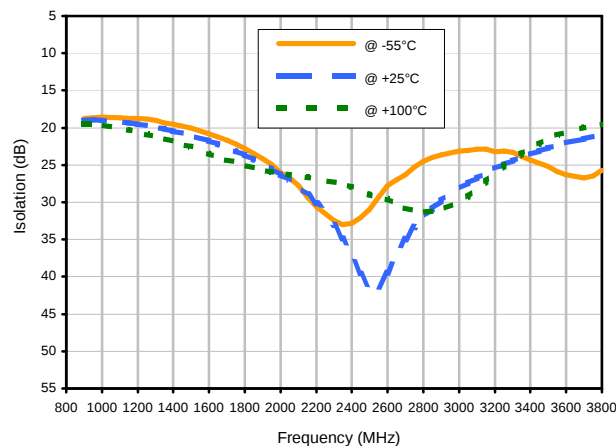
Amplitude Unbalance vs. TEMPERATURE



Phase Unbalance vs. TEMPERATURE



Isolation 1-2 vs. TEMPERATURE



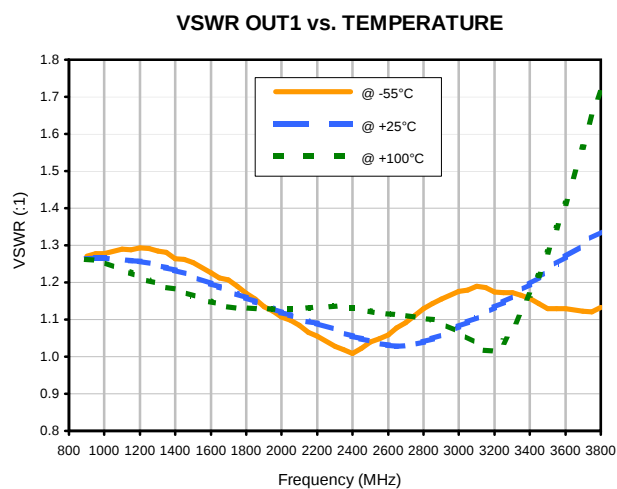
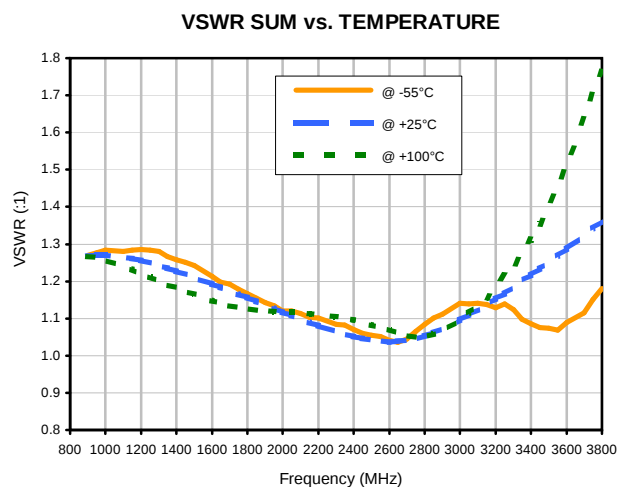
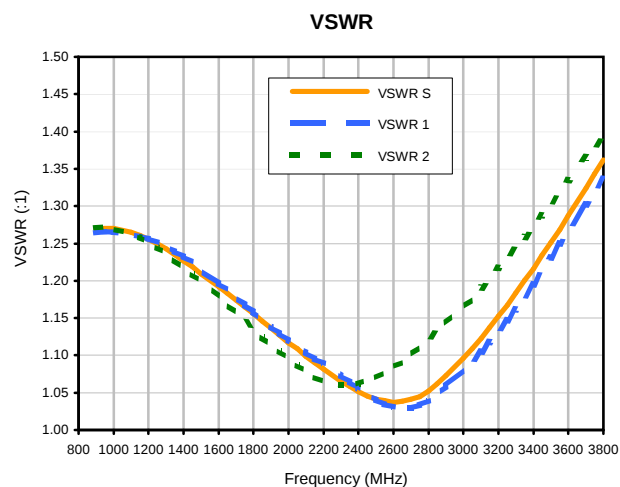
REV. X2

QCN-27

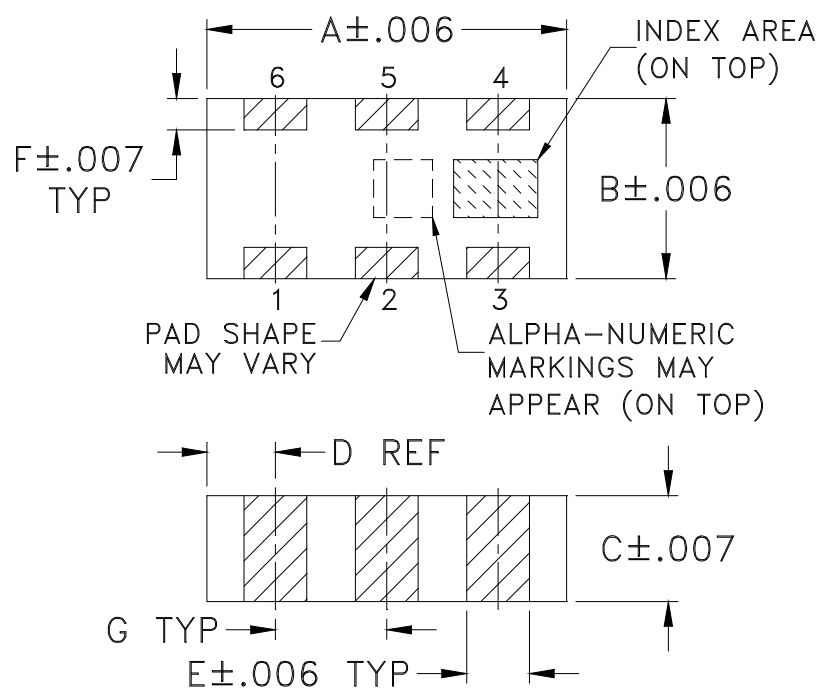
100627

Page 1 of 2

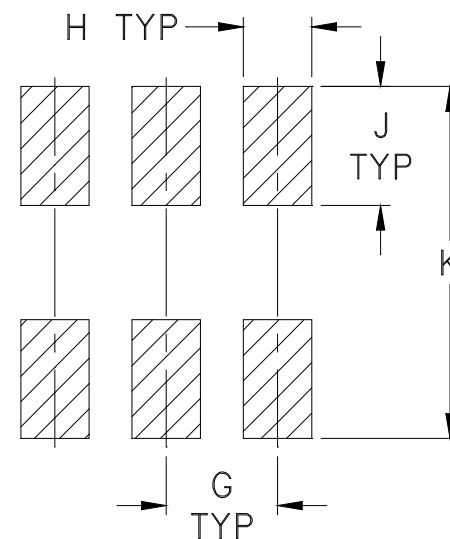
Typical Performance Curves



Outline Dimensions



PCB Land Pattern



Suggested Layout,
Tolerance to be within $\pm .002$

CASE #	A	B	C	D	E	F	G	H	J	K	L	M	N	P	WT. GRAM
FV1206-1	.126 (3.20)	.063 (1.60)	.035 (0.89)	.024 (0.61)	.022 (0.56)	.011 (0.28)	.039 (0.99)	.024 (0.61)	.042 (1.07)	.123 (3.12)	--	--	--	--	.020

Dimensions are in inches (mm). Tolerances: 2 PL. $\pm .01$; 3 PL. $\pm .005$

Notes:

- Open style, ceramic base.
- Termination finish: **as shown below or indicated on Data Sheet.**
For RoHS Case Styles: Tin plate over Nickel plate. All models, (+) suffix.
For RoHS-5 Case Styles: Tin-Lead plate. All models, no (+) suffix.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

DEVICE ORIENTATION IN T&R

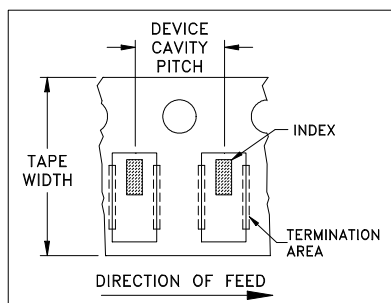


ILLUSTRATION 1

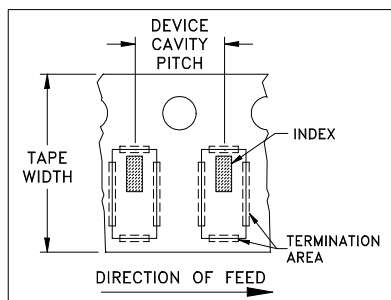


ILLUSTRATION 2

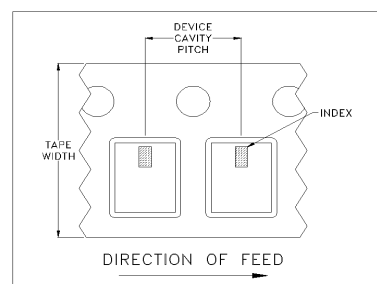


ILLUSTRATION 3

Applicable Case Styles

FV1206-1
FV1206-3

Applicable Case Styles

FV1206-4
FV1206-5
FV1206-6
FV1206-7
FV1206-9

Applicable Case Styles

FV1206-11
FV1206-12
GE0805C-18
NL1008C-6
NL1008C-7
NL1008C-9
NL1008C-10
NL1008C-12

Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel	
8	4	7	Small quantity standards (see note)	20
				50
				100
				200
				500
				1000
			Standard	3000

Note: Please consult individual model data sheet to determine device per reel availability.

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf

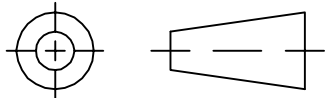


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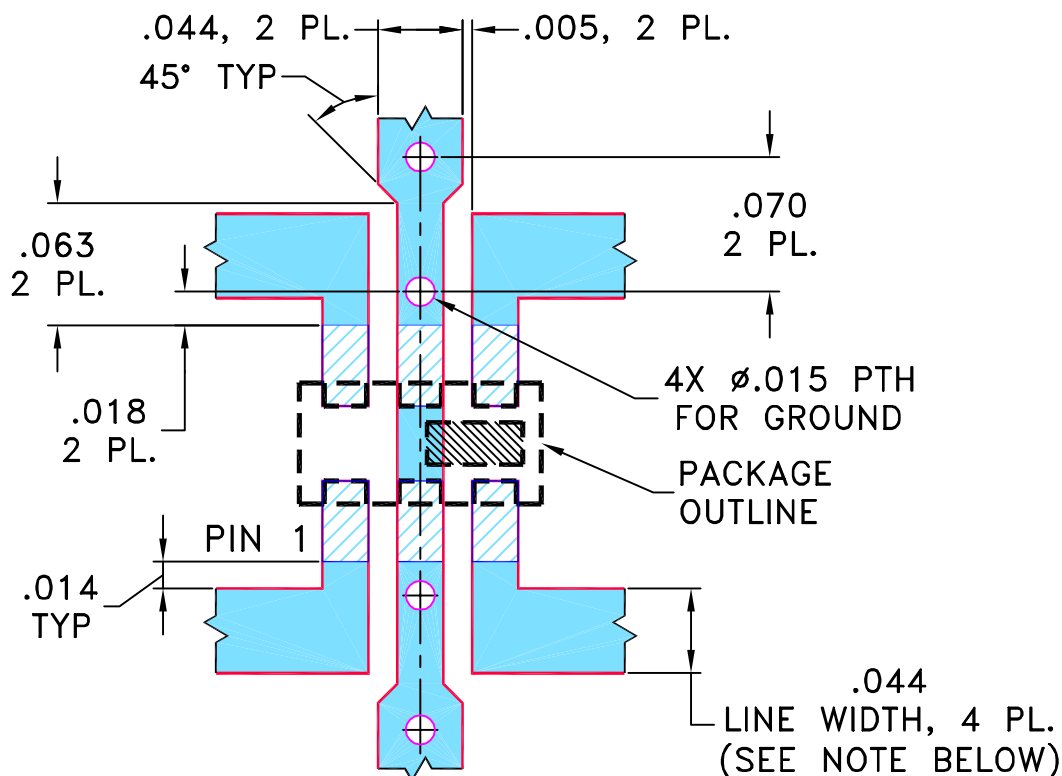
THIRD ANGLE PROJECTION



REVISIONS

REV	ECN No.	DESCRIPTION	DATE	DR	AUTH
OR	M87001	NEW RELEASE	05/20/03	MMG	ABD
A	M87231	CORRECTED DWG.	05/28/03	MMG	ABD
B	M91636	ADDED "pn" PIN CONNECTION	04/07/04	AV	ABD
C	M102713	ADDED "...WITH SMOBC"	01/16/06	GF	IL

SUGGESTED MOUNTING CONFIGURATION
FOR FV1206-1 CASE STYLE, "pb/pn" PIN CONNECTIONS

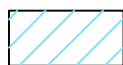


NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.020" $\pm$ 0.0015"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

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

UNLESS OTHERWISE SPECIFIED

INITIALS

DATE

DIMENSIONS ARE IN INCHES

TOLERANCES ON:

2 PL DECIMALS $\pm$ 3 PL DECIMALS $\pm$.005ANGLES $\pm$ FRACTIONS $\pm$

DRAWN

MMG

05/14/03

CHECKED

AV

05/19/03

APPROVED

ABD

05/20/03



Mini-Circuits®

13 Neptune Avenue
Brooklyn NY 11235

PL, pb/pn, FV1206-1, QCN/BDCN, TB-255

SIZE

CODE IDENT

DRAWING NO:

REV:

A

15542

98-PL-131

C

FILE:

98PL131

SCALE:

10:1

SHEET:

1 OF 1

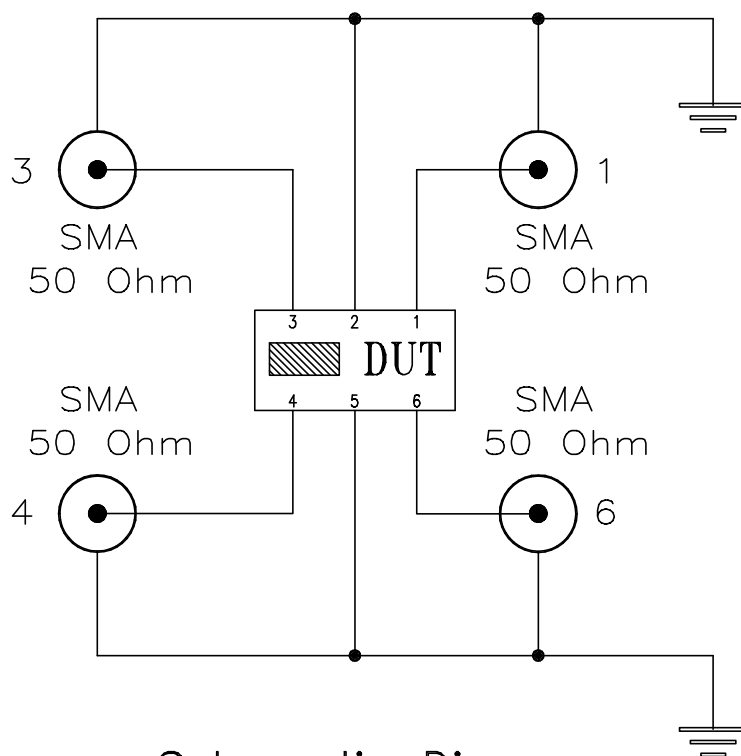
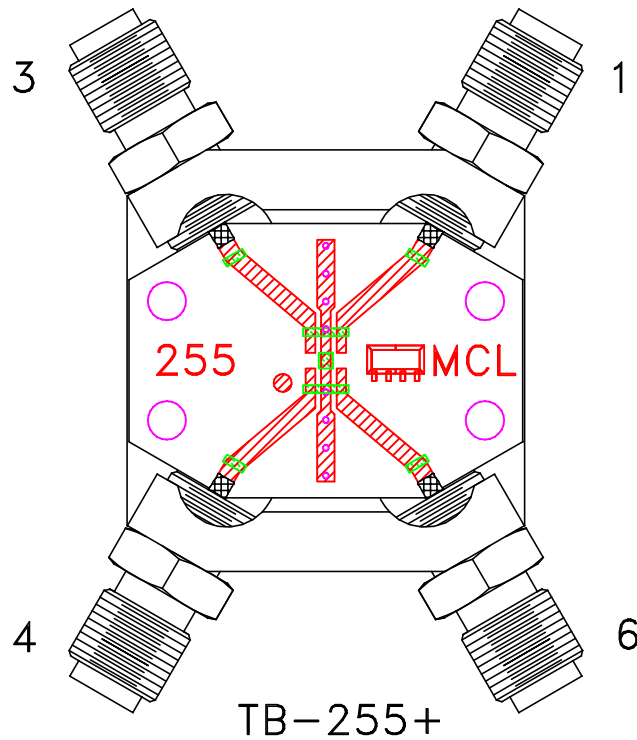
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ASHEETA1.DWG REV:A DATE:01/12/95

Evaluation Board and Circuit

For Pin Connections refer to Data Sheet of the DUT



Schematic Diagram

Notes:

1. SMA Female connectors.
2. PCB Material: Rogers R04350 or equivalent, Dielectric Constant=3.5, Thickness=.020 inch.

 **Mini-Circuits®**



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Humidity	90 to 95% RH, 240 hours, 50°C	MIL-STD-202, Method 103, Condition A, Except 50°C and end-point electrical test done within 12 hours
Solder Reflow Heat	Sn-Pb Eutetic Process: 225°C peak Pb-Free Process 245° - 250°C peak	J-STD-020, Table 4-1, 4-2 and 5-2, Figure 5-1
Solderability	10X Magnification	J-STD-002, Para 4.2.5, Test S, 95% Coverage
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A