

2 Way-0° 50Ω 1700 to 2500 MHz

Maximum Ratings

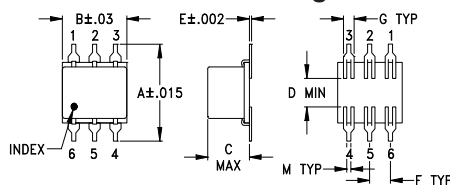
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

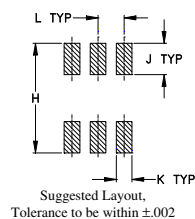
Pin Connections

SUM PORT	6
PORT 1	4
PORT 2	3
GROUND	1,2,5

Outline Drawing

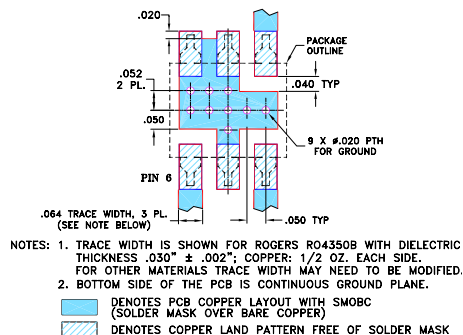


PCB Land Pattern



Outline Dimensions (inch mm)

A	B	C	D	E	F	G
.400	.31	.200	.10	.010	.100	.050
10.16	7.87	5.08	2.54	0.25	2.54	1.27
H	J	K	L	M		wt
.420	.120	.060	.100	.020		grams
10.67	3.05	1.52	2.54	0.51		0.55

Demo Board MCL P/N: TB-100
Suggested PCB Layout (PL-057)

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-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

Features

- low insertion loss, 0.8 dB typ.
- good isolation, 20 dB typ.

Applications

- PCS
- DCS
- ISM
- communications systems



Generic photo used for illustration purposes only

CASE STYLE: QQQ130

+RoHS Compliant

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

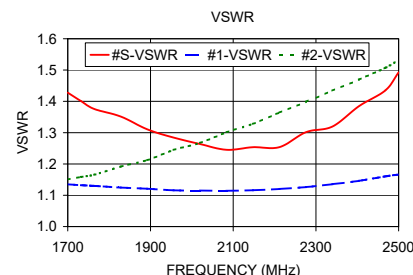
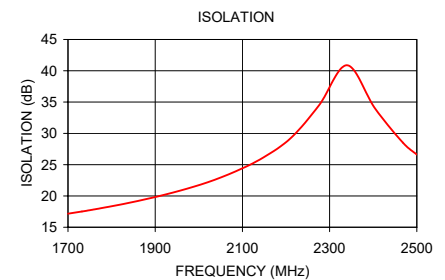
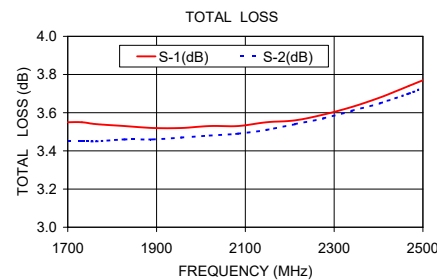
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
1700-2500	20	16	0.8	1.3	10	0.9

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						
1700.00	3.55	3.45	0.10	17.17	1.63	1.43	1.14	1.15
1732.00	3.55	3.45	0.10	17.52	1.55	1.40	1.13	1.16
1764.00	3.54	3.45	0.09	17.89	1.53	1.38	1.13	1.17
1828.00	3.53	3.46	0.07	18.73	1.43	1.35	1.12	1.19
1892.00	3.52	3.46	0.07	19.69	1.24	1.31	1.12	1.21
1956.00	3.52	3.47	0.05	20.83	1.13	1.28	1.12	1.25
2020.00	3.53	3.48	0.05	22.18	0.94	1.26	1.12	1.27
2084.00	3.53	3.49	0.04	23.91	0.75	1.25	1.11	1.30
2148.00	3.55	3.51	0.04	26.14	0.50	1.25	1.12	1.33
2212.00	3.56	3.54	0.02	29.31	0.34	1.25	1.12	1.36
2276.00	3.59	3.57	0.03	34.50	0.11	1.30	1.13	1.40
2340.00	3.63	3.61	0.03	40.88	0.21	1.32	1.14	1.43
2404.00	3.68	3.65	0.03	34.00	0.40	1.38	1.15	1.47
2468.00	3.74	3.70	0.03	28.52	0.79	1.44	1.16	1.51
2500.00	3.77	3.73	0.03	26.61	0.93	1.49	1.17	1.53

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



electrical schematic

