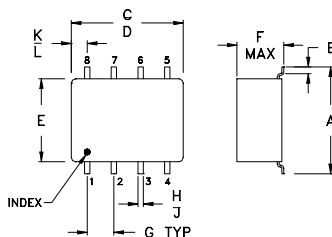
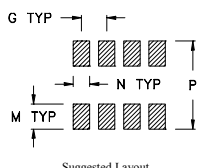


2 Way-90° 50Ω 95 to 200 MHz**Maximum Ratings**

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

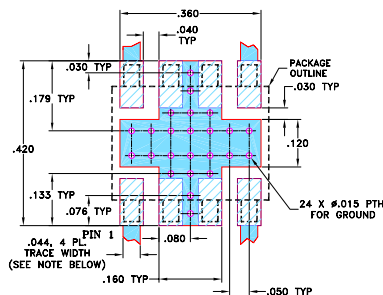
SUMPORT	1
PORT 1 (0°)	5
PORT 2 (+90°)	8
GROUND EXTERNAL	2,3,6,7
50 OHM TERM EXTERNAL	4

Outline Drawing**PCB Land Pattern**

Soldered 1mm

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	
.397	.032	.385	.435	.310	.215	.100	
10.08	0.81	9.78	11.05	7.87	5.46	2.54	
H	J	K	L	M	N	P	wt
.015	.025	.035	.075	.120	.060	.420	grams
0.38	0.64	0.89	1.91	3.05	1.52	10.67	0.45

**Demo Board MCL P/N: TB-83
Suggested PCB Layout (PL-063)**

- 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

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/MCLStore/terms.jsp

Features

- low insertion loss, 0.3 dB typ.
- high isolation, 28 dB typ.
- excellent VSWR, 1.10 typ.
- small size surface mount

Applications

- point to point microwave link



Generic photo used for illustration purposes only

CASE STYLE: CJ725

+RoHS Compliant

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

Reel Size	Devices/Reel
7"	10, 20, 50, 100, 200
13"	500

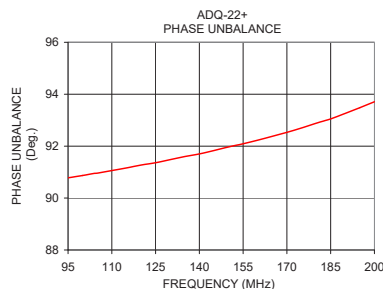
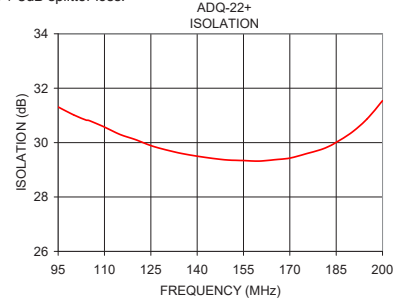
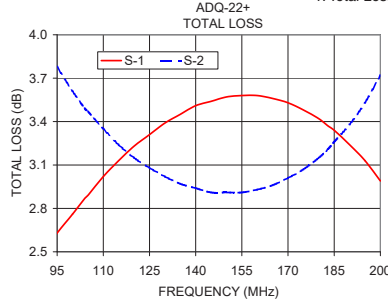
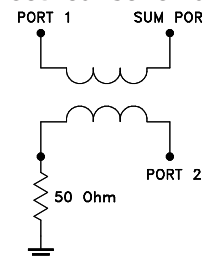
Electrical Specifications

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.	S-Port Typ. Output Typ.
95-200	28 24	0.3 0.6	2 6	0.7 1.6	1.1 1.1

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						
95.00	2.63 3.78	1.15	31.31	90.78	1.09	1.09	1.06
100.00	2.76 3.61	0.85	31.02	90.87	1.09	1.09	1.06
105.00	2.89 3.47	0.57	30.81	90.96	1.09	1.09	1.06
110.00	3.02 3.35	0.33	30.57	91.06	1.09	1.09	1.06
120.00	3.23 3.15	0.08	30.11	91.27	1.10	1.10	1.06
130.00	3.39 3.02	0.37	29.73	91.48	1.10	1.10	1.06
140.00	3.51 2.94	0.57	29.50	91.70	1.10	1.10	1.06
150.00	3.57 2.91	0.66	29.36	91.97	1.10	1.10	1.06
160.00	3.58 2.93	0.65	29.32	92.23	1.10	1.10	1.06
170.00	3.53 3.01	0.52	29.43	92.53	1.11	1.11	1.05
180.00	3.42 3.15	0.26	29.74	92.88	1.11	1.11	1.05
185.00	3.34 3.26	0.08	30.01	93.05	1.11	1.10	1.05
190.00	3.24 3.38	0.14	30.37	93.26	1.11	1.10	1.05
195.00	3.13 3.53	0.41	30.87	93.48	1.11	1.10	1.04
200.00	2.99 3.72	0.72	31.54	93.71	1.11	1.10	1.04

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

**electrical schematic**

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