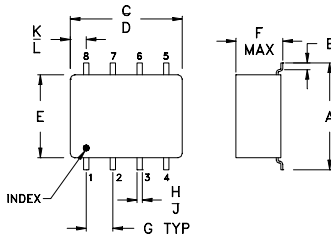
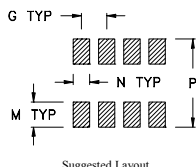


2 Way-90° 50Ω 95 to 200 MHz**Maximum Ratings**

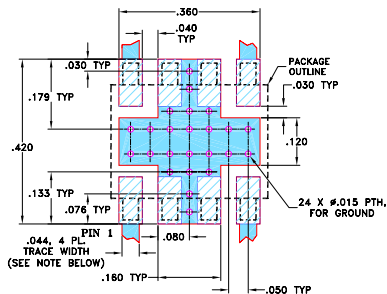
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Permanent damage may occur if any of these limits are exceeded.	

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

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



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

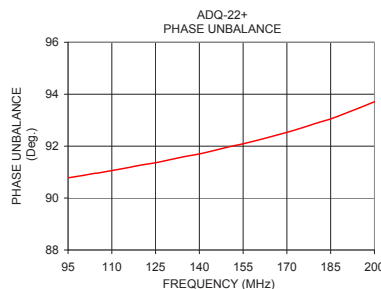
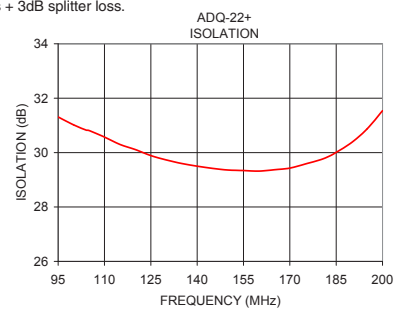
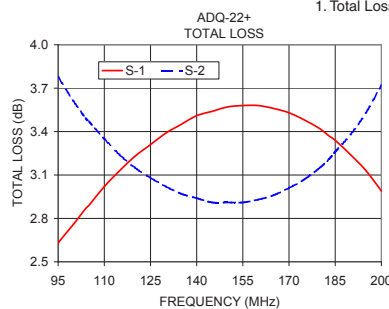
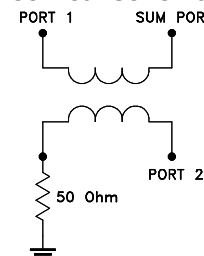
Electrical Specifications

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**

- 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

