

3 Way-0° 50Ω 20 to 1200 MHz

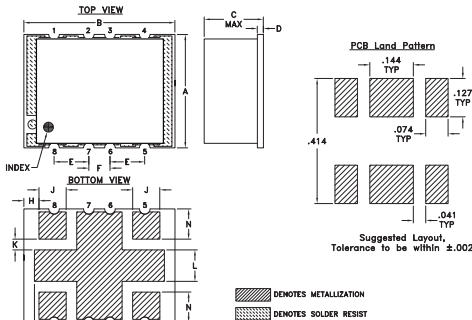
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.15W max.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

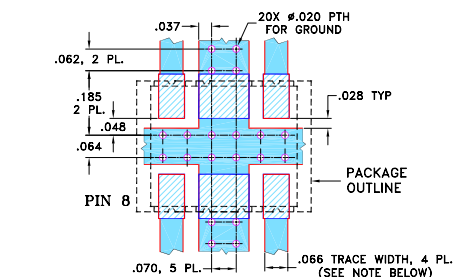
SUM PORT	8
PORT 1	1
PORT 2	4
PORT 3	5
GROUND	2,3,6,7

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
.38	.50	.25	.020	.115	.070	.035	.050
9.65	12.70	6.35	0.51	2.92	1.78	0.89	1.27
J	K	L	M	N		wt	
.090	.040	.105	.140	.095		grams	
2.29	1.02	2.67	3.56	2.41		0.80	

Demo Board MCL P/N: TB-364
Suggested PCB Layout (PL-231)

NOTES:

- TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
- BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

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

Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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 1.0 dB typ.
- wide frequency band, 20 to 1200 MHz, usable 5 to 1250 MHz
- low amplitude unbalance, 0.1 dB typ.

Applications

- VHF/UHF CATV
- cellular



CASE STYLE: AH202

+RoHS Compliant

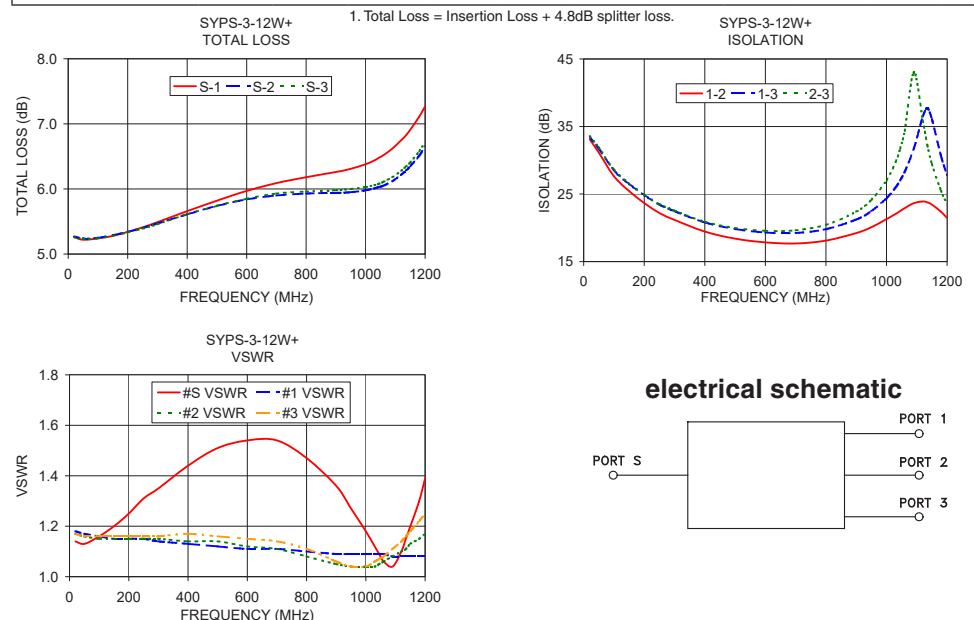
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 4.8 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
20-500	24	16	0.7	1.4	2.0	0.3
500-1000	20	15	1.2	2.0	4.0	0.7
1000-1200	24	16	1.7	2.9	6.0	0.9

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
20.00	5.26	5.27	5.26	0.01	33.11	33.43	33.56	0.08	1.14	1.18	1.17	1.17
50.00	5.22	5.24	5.23	0.01	31.13	31.72	31.88	0.10	1.13	1.17	1.16	1.16
100.00	5.24	5.25	5.24	0.01	27.63	28.50	28.60	0.18	1.16	1.16	1.15	1.16
200.00	5.34	5.34	5.33	0.01	23.67	24.84	24.91	0.32	1.25	1.15	1.15	1.16
300.00	5.49	5.47	5.46	0.03	21.17	22.46	22.54	0.44	1.35	1.14	1.15	1.16
400.00	5.66	5.61	5.61	0.05	19.44	20.80	20.90	0.52	1.44	1.13	1.14	1.17
500.00	5.82	5.74	5.74	0.09	18.40	19.82	19.98	0.56	1.51	1.12	1.14	1.16
600.00	5.97	5.84	5.85	0.13	17.84	19.31	19.56	0.52	1.54	1.11	1.12	1.15
700.00	6.09	5.90	5.93	0.18	17.68	19.24	19.63	0.40	1.54	1.11	1.11	1.14
800.00	6.18	5.93	5.96	0.25	18.11	19.80	20.45	0.19	1.47	1.10	1.08	1.11
900.00	6.26	5.94	5.98	0.32	19.22	21.23	22.40	0.19	1.36	1.09	1.05	1.06
1000.00	6.38	5.98	6.03	0.41	21.28	24.38	27.02	0.71	1.18	1.09	1.04	1.04
1090.00	6.62	6.12	6.18	0.50	23.65	31.70	42.96	1.40	1.04	1.08	1.08	1.11
1150.00	6.91	6.35	6.41	0.56	23.44	36.09	29.45	1.96	1.20	1.08	1.13	1.18
1200.00	7.27	6.65	6.72	0.62	21.47	27.81	23.54	2.56	1.39	1.08	1.17	1.25



electrical schematic



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