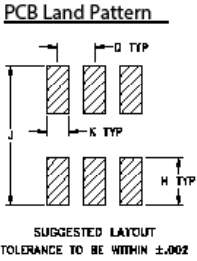
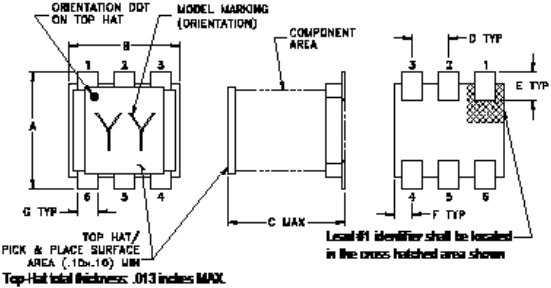
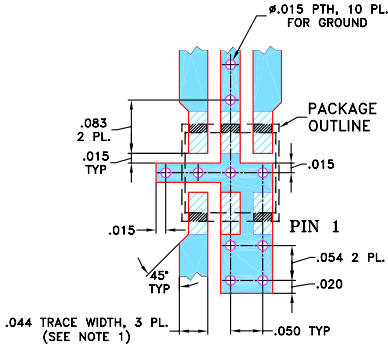


TCM2-33WX+

Outline Drawing



Demo Board MCL P/N: TB-654+
Suggested PCB Layout (PL-364)



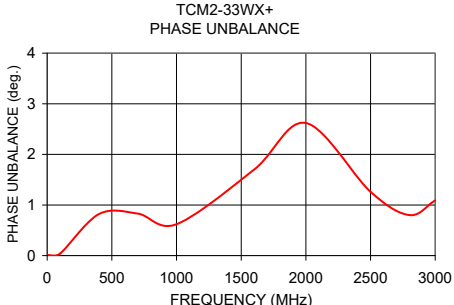
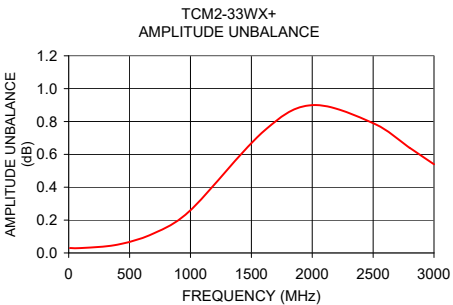
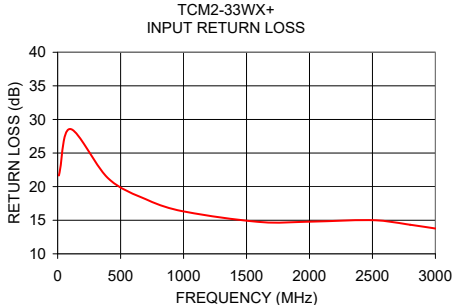
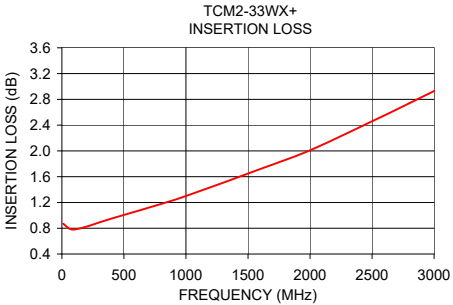
Outline Dimensions (inch/mm)

| A | B | C | D | E | F |
|------|------|------|------|-------|------|
| .160 | .150 | .160 | .050 | .040 | .025 |
| 4.06 | 3.81 | 4.06 | 1.27 | 1.02 | 0.64 |
| G | H | J | K | wt | |
| .028 | .065 | .190 | .030 | grams | |
| 0.71 | 1.65 | 4.83 | 0.76 | | 0.15 |

- NOTES:**
- TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" ± .0015"; COPPER: 1/2 OZ. ON EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 - 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

Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | Input R. Loss (dB) | Amplitude Unbalance (dB) | Phase Unbalance (Deg.) |
|-----------------|---------------------|--------------------|--------------------------|------------------------|
| 10 | 0.87 | 21.66 | 0.03 | 0.01 |
| 100 | 0.78 | 28.58 | 0.03 | 0.04 |
| 400 | 0.95 | 21.26 | 0.05 | 0.82 |
| 700 | 1.12 | 18.13 | 0.12 | 0.83 |
| 1000 | 1.30 | 16.31 | 0.26 | 0.62 |
| 1600 | 1.72 | 14.75 | 0.74 | 1.70 |
| 2000 | 2.01 | 14.79 | 0.90 | 2.62 |
| 2500 | 2.46 | 15.01 | 0.79 | 1.26 |
| 2800 | 2.74 | 14.33 | 0.64 | 0.80 |
| 3000 | 2.93 | 13.77 | 0.54 | 1.09 |



Additional 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-Circuits' applicable established test performance criteria and measurement instructions.
- 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



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