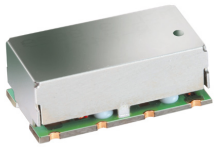
*Surface Mount*

# Low Pass Filter

## SXLP-95+

50Ω DC to 95 MHz



CASE STYLE: HF1139

### Maximum Ratings

| | |
|---|---|
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input | 0.5W Max. |

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

### Pin Connections

| | |
|---|---|
| INPUT | 1 |
| OUTPUT | 8 |
| GROUND | 2, 3, 4, 5, 6, 7 |

### Features

- high rejection
- sharp cut-off
- shielded package
- aqueous washable
- low cost

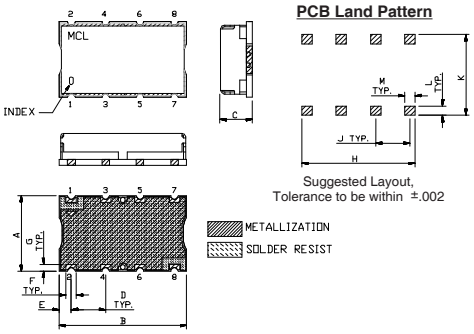
### Applications

- test equipments
- defense communications
- receivers / transmitters
- harmonic rejection

***+RoHS Compliant***

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

### Outline Drawing

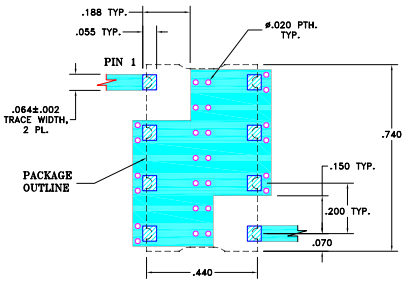



### Outline Dimensions (inch / mm)

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| .44 | .74 | .27 | .200 | .07 | .060 |
| 11.18 | 18.80 | 6.86 | 5.08 | 1.78 | 1.52 |

| G | H | J | K | L | M | wt. |
|---|---|---|---|---|---|---|
| .040 | .660 | .200 | .470 | .055 | .060 | grams |
| 1.02 | 16.76 | 5.08 | 11.94 | 1.40 | 1.52 | 3.0 |

### *Demo Board MCL P/N: TB-368*
### *Suggested PCB Layout (PL-230)*




NOTE:
1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS: .025"±.002". 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.

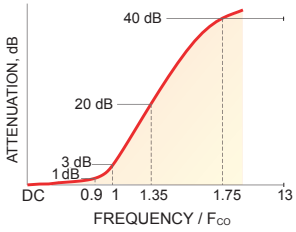
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

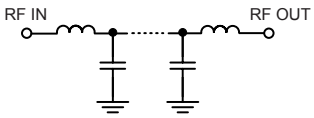
### Low Pass Filter Electrical Specifications ($T_{AMB}$= 25°C)

| PASSBAND (MHz) | fco, MHz Nom. | STOPBAND (MHz) | | VSWR (:1) | |
|---|---|---|---|---|---|
| | | | | Passband Typ. | Stopband Typ. |
| (Loss < 1dB) | (Loss 3dB) | (Loss > 20dB) | (Loss > 40dB) | | |
| DC - 95 | 108 | 146 - 189 | 189 - 1400 | 1.7 | 18 |

### Typical Frequency Response

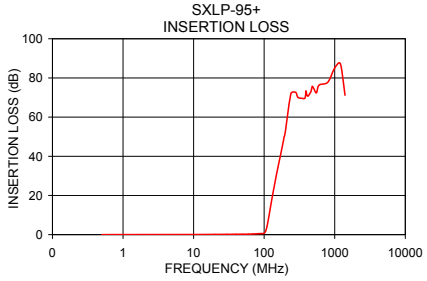


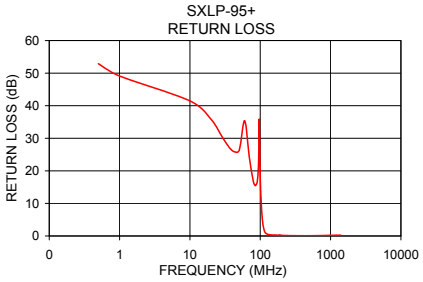

### Functional Schematic

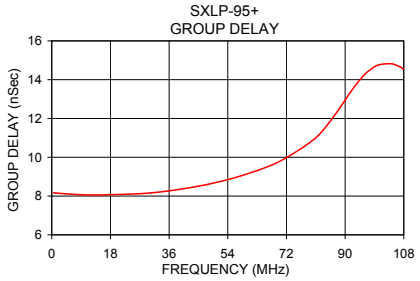



### Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) $\bar{x}$ | Insertion Loss (dB) σ | Return Loss (dB) | Frequency (MHz) | Group Delay (nSec) |
|---|---|---|---|---|---|
| 0.5 | 0.02 | 0.01 | 52.90 | 0.5 | 8.17 |
| 1.0 | 0.04 | 0.00 | 49.11 | 10.0 | 8.06 |
| 10.0 | 0.08 | 0.00 | 41.48 | 20.0 | 8.08 |
| 30.0 | 0.15 | 0.01 | 29.77 | 30.0 | 8.16 |
| 70.0 | 0.31 | 0.01 | 24.07 | 40.0 | 8.37 |
| 95.0 | 0.53 | 0.01 | 23.82 | 50.0 | 8.68 |
| 100.0 | 0.79 | 0.03 | 18.19 | 60.0 | 9.14 |
| 104.0 | 1.57 | 0.10 | 8.88 | 70.0 | 9.80 |
| 108.0 | 3.30 | 0.21 | 4.43 | 80.0 | 10.87 |
| 115.0 | 8.14 | 0.47 | 1.48 | 85.0 | 11.76 |
| 120.0 | 12.00 | 0.61 | 0.84 | 90.0 | 12.95 |
| 146.0 | 28.80 | 0.94 | 0.31 | 91.0 | 13.19 |
| 189.0 | 48.66 | 1.53 | 0.20 | 92.0 | 13.44 |
| 200.0 | 53.38 | 2.00 | 0.18 | 93.0 | 13.66 |
| 400.0 | 72.49 | 2.86 | 0.07 | 94.0 | 13.88 |
| 800.0 | 80.12 | 3.70 | 0.15 | 95.0 | 14.08 |
| 1200.0 | 78.78 | 5.48 | 0.23 | 100.0 | 14.75 |
| 1400.0 | 71.99 | 2.28 | 0.26 | 108.0 | 14.53 |




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

# Surface Mount Low Pass Filter SXLP-95+

## *Typical Performance Data*

| FREQ. (MHz) | INSERTION LOSS (dB) | | | INPUT RETURN LOSS (dB) | | | OUTPUT RETURN LOSS (dB) | | |
|---|---|---|---|---|---|---|---|---|---|
| | @ -40° C | @ +25° C | @ +85° C | @ -40° C | @ +25° C | @ +85° C | @ -40° C | @ +25° C | @ +85° C |
| 0.5 | 0.02 | 0.01 | 0.04 | 47.94 | 46.62 | 44.00 | 47.52 | 45.74 | 43.93 |
| 1 | 0.03 | 0.03 | 0.05 | 46.58 | 44.94 | 43.66 | 46.38 | 44.57 | 43.49 |
| 10 | 0.10 | 0.11 | 0.13 | 34.24 | 33.09 | 32.44 | 34.28 | 33.20 | 32.58 |
| 20 | 0.10 | 0.13 | 0.14 | 33.96 | 32.88 | 32.29 | 33.98 | 33.35 | 32.91 |
| 30 | 0.13 | 0.15 | 0.18 | 40.97 | 38.61 | 37.08 | 41.85 | 42.92 | 43.21 |
| 40 | 0.18 | 0.21 | 0.24 | 27.66 | 27.05 | 26.55 | 27.80 | 27.26 | 26.76 |
| 50 | 0.23 | 0.26 | 0.30 | 22.00 | 21.69 | 21.47 | 22.07 | 21.71 | 21.45 |
| 60 | 0.27 | 0.31 | 0.35 | 20.55 | 20.52 | 20.55 | 20.55 | 20.48 | 20.44 |
| 70 | 0.29 | 0.34 | 0.37 | 23.79 | 24.33 | 24.82 | 23.60 | 24.08 | 24.51 |
| 80 | 0.31 | 0.37 | 0.42 | 31.76 | 30.77 | 29.84 | 30.66 | 30.18 | 29.45 |
| 90 | 0.40 | 0.47 | 0.53 | 25.93 | 25.33 | 24.99 | 25.01 | 24.34 | 23.90 |
| 95 | 0.45 | 0.53 | 0.60 | 29.22 | 28.90 | 28.54 | 25.34 | 24.56 | 24.01 |
| 100 | 0.67 | 0.79 | 0.88 | 15.73 | 15.42 | 15.10 | 15.13 | 14.75 | 14.40 |
| 104 | 1.29 | 1.47 | 1.61 | 8.92 | 8.73 | 8.52 | 8.72 | 8.51 | 8.30 |
| 105 | 1.58 | 1.77 | 1.92 | 7.66 | 7.50 | 7.33 | 7.48 | 7.31 | 7.14 |
| 108 | 2.79 | 3.02 | 3.23 | 4.74 | 4.65 | 4.55 | 4.63 | 4.55 | 4.46 |
| 110 | 3.90 | 4.16 | 4.39 | 3.40 | 3.36 | 3.30 | 3.31 | 3.29 | 3.23 |
| 115 | 7.44 | 7.75 | 8.00 | 1.54 | 1.58 | 1.58 | 1.49 | 1.52 | 1.55 |
| 120 | 11.36 | 11.64 | 11.90 | 0.83 | 0.87 | 0.90 | 0.77 | 0.84 | 0.88 |
| 130 | 18.62 | 18.85 | 19.08 | 0.41 | 0.45 | 0.48 | 0.37 | 0.44 | 0.49 |
| 140 | 24.90 | 25.12 | 25.32 | 0.30 | 0.32 | 0.35 | 0.25 | 0.32 | 0.36 |
| 146 | 28.29 | 28.50 | 28.69 | 0.26 | 0.29 | 0.31 | 0.22 | 0.29 | 0.33 |
| 150 | 30.41 | 30.61 | 30.80 | 0.24 | 0.27 | 0.29 | 0.20 | 0.26 | 0.30 |
| 160 | 35.25 | 35.45 | 35.61 | 0.22 | 0.24 | 0.26 | 0.19 | 0.24 | 0.28 |
| 170 | 39.48 | 39.66 | 39.85 | 0.19 | 0.22 | 0.23 | 0.16 | 0.21 | 0.25 |
| 180 | 43.21 | 43.34 | 43.52 | 0.19 | 0.20 | 0.21 | 0.15 | 0.19 | 0.23 |
| 189 | 46.42 | 46.52 | 46.66 | 0.16 | 0.18 | 0.19 | 0.12 | 0.17 | 0.20 |
| 190 | 46.72 | 46.76 | 47.03 | 0.16 | 0.17 | 0.19 | 0.13 | 0.17 | 0.19 |
| 200 | 49.93 | 49.94 | 50.08 | 0.14 | 0.16 | 0.18 | 0.12 | 0.16 | 0.19 |
| 210 | 52.48 | 52.81 | 52.72 | 0.13 | 0.15 | 0.17 | 0.11 | 0.15 | 0.18 |
| 220 | 54.96 | 55.04 | 55.23 | 0.12 | 0.14 | 0.16 | 0.09 | 0.14 | 0.17 |
| 230 | 57.31 | 57.44 | 57.57 | 0.12 | 0.13 | 0.15 | 0.08 | 0.13 | 0.16 |
| 240 | 59.67 | 60.01 | 59.73 | 0.10 | 0.13 | 0.14 | 0.08 | 0.13 | 0.15 |
| 250 | 61.60 | 61.56 | 61.94 | 0.10 | 0.12 | 0.14 | 0.07 | 0.12 | 0.16 |
| 300 | 69.50 | 69.60 | 69.52 | 0.08 | 0.10 | 0.11 | 0.04 | 0.09 | 0.13 |
| 400 | 80.88 | 77.38 | 81.82 | 0.06 | 0.08 | 0.09 | 0.02 | 0.09 | 0.12 |
| 500 | 91.94 | 82.50 | 84.03 | 0.04 | 0.06 | 0.10 | 0.00 | 0.07 | 0.13 |
| 600 | 93.43 | 97.69 | 91.29 | 0.05 | 0.07 | 0.11 | 0.00 | 0.08 | 0.13 |
| 700 | 89.50 | 90.54 | 82.65 | 0.05 | 0.08 | 0.13 | 0.02 | 0.11 | 0.17 |
| 800 | 87.04 | 83.34 | 87.26 | 0.05 | 0.09 | 0.14 | 0.00 | 0.11 | 0.16 |
| 900 | 83.28 | 89.21 | 95.85 | 0.06 | 0.11 | 0.15 | 0.02 | 0.11 | 0.18 |
| 1000 | 81.73 | 82.38 | 80.95 | 0.09 | 0.14 | 0.18 | 0.03 | 0.15 | 0.21 |
| 1100 | 89.64 | 88.99 | 82.97 | 0.06 | 0.12 | 0.18 | 0.00 | 0.13 | 0.20 |
| 1200 | 83.35 | 77.75 | 79.82 | 0.08 | 0.15 | 0.20 | 0.02 | 0.16 | 0.24 |
| 1300 | 75.87 | 74.54 | 76.28 | 0.13 | 0.19 | 0.24 | 0.06 | 0.20 | 0.27 |
| 1400 | 76.70 | 78.97 | 79.46 | 0.13 | 0.19 | 0.25 | 0.05 | 0.20 | 0.28 |
| 1500 | 66.05 | 67.95 | 65.90 | 0.13 | 0.20 | 0.25 | 0.06 | 0.22 | 0.30 |
| 2000 | 62.63 | 63.26 | 62.98 | 0.22 | 0.29 | 0.37 | 0.13 | 0.30 | 0.41 |
| 2500 | 48.30 | 49.47 | 48.96 | 0.26 | 0.35 | 0.45 | 0.17 | 0.36 | 0.48 |
| 3000 | 39.62 | 47.70 | 43.58 | 0.40 | 0.48 | 0.57 | 0.32 | 0.56 | 0.68 |
| 3500 | 31.44 | 31.52 | 29.18 | 0.58 | 0.73 | 0.88 | 1.17 | 1.61 | 1.66 |
| 4000 | 31.20 | 31.83 | 30.95 | 2.26 | 2.74 | 3.17 | 0.47 | 0.89 | 1.08 |
| 4500 | 22.57 | 24.60 | 24.58 | 1.23 | 1.37 | 1.59 | 1.73 | 1.94 | 2.45 |
| 5000 | 14.11 | 17.32 | 17.34 | 3.20 | 3.49 | 3.69 | 4.37 | 3.44 | 3.62 |



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## *Typical Performance Data*

| FREQ. (MHz) | GROUP DELAY (nsec) | | |
|---|---|---|---|
| | @ -40° C | @ +25° C | @ +85° C |
| 0.5 | 8.12 | 8.29 | 7.84 |
| 10 | 7.93 | 7.99 | 7.99 |
| 12 | 7.97 | 8.00 | 8.01 |
| 14 | 7.96 | 7.99 | 8.01 |
| 15 | 8.00 | 8.02 | 8.03 |
| 18 | 8.01 | 8.03 | 8.05 |
| 20 | 8.04 | 8.05 | 8.07 |
| 22 | 8.06 | 8.07 | 8.13 |
| 24 | 8.10 | 8.12 | 8.17 |
| 25 | 8.12 | 8.14 | 8.15 |
| 28 | 8.16 | 8.18 | 8.20 |
| 30 | 8.21 | 8.20 | 8.23 |
| 32 | 8.28 | 8.28 | 8.30 |
| 34 | 8.30 | 8.34 | 8.35 |
| 35 | 8.32 | 8.32 | 8.35 |
| 38 | 8.40 | 8.42 | 8.43 |
| 40 | 8.43 | 8.45 | 8.46 |
| 42 | 8.50 | 8.51 | 8.53 |
| 44 | 8.58 | 8.57 | 8.61 |
| 45 | 8.60 | 8.62 | 8.62 |
| 48 | 8.70 | 8.71 | 8.73 |
| 50 | 8.77 | 8.77 | 8.78 |
| 52 | 8.80 | 8.82 | 8.83 |
| 54 | 8.89 | 8.91 | 8.93 |
| 55 | 8.95 | 8.95 | 9.00 |
| 58 | 9.10 | 9.10 | 9.09 |
| 60 | 9.23 | 9.23 | 9.22 |
| 62 | 9.30 | 9.33 | 9.34 |
| 64 | 9.43 | 9.47 | 9.48 |
| 65 | 9.49 | 9.51 | 9.59 |
| 68 | 9.75 | 9.79 | 9.82 |
| 70 | 9.91 | 9.95 | 9.99 |
| 72 | 10.15 | 10.18 | 10.18 |
| 74 | 10.33 | 10.36 | 10.40 |
| 75 | 10.43 | 10.47 | 10.52 |
| 78 | 10.75 | 10.78 | 10.81 |
| 80 | 10.99 | 11.02 | 11.05 |
| 82 | 11.26 | 11.28 | 11.29 |
| 84 | 11.52 | 11.55 | 11.59 |
| 85 | 11.68 | 11.72 | 11.76 |
| 88 | 12.18 | 12.24 | 12.30 |
| 90 | 12.67 | 12.74 | 12.80 |
| 92 | 13.19 | 13.27 | 13.36 |
| 94 | 13.90 | 14.00 | 14.10 |
| 95 | 14.32 | 14.41 | 14.53 |
| 98 | 15.75 | 15.87 | 15.98 |
| 100 | 16.88 | 16.98 | 17.11 |
| 110 | 18.28 | 18.08 | 17.91 |
| 120 | 10.66 | 10.50 | 10.35 |
| 130 | 6.49 | 6.42 | 6.33 |
| 150 | 3.41 | 3.32 | 3.32 |
| 200 | 1.18 | 1.03 | 1.08 |
| 210 | 0.70 | 0.91 | 1.66 |
| 220 | 1.70 | 2.59 | 0.81 |
| 230 | 1.43 | 2.93 | 2.21 |

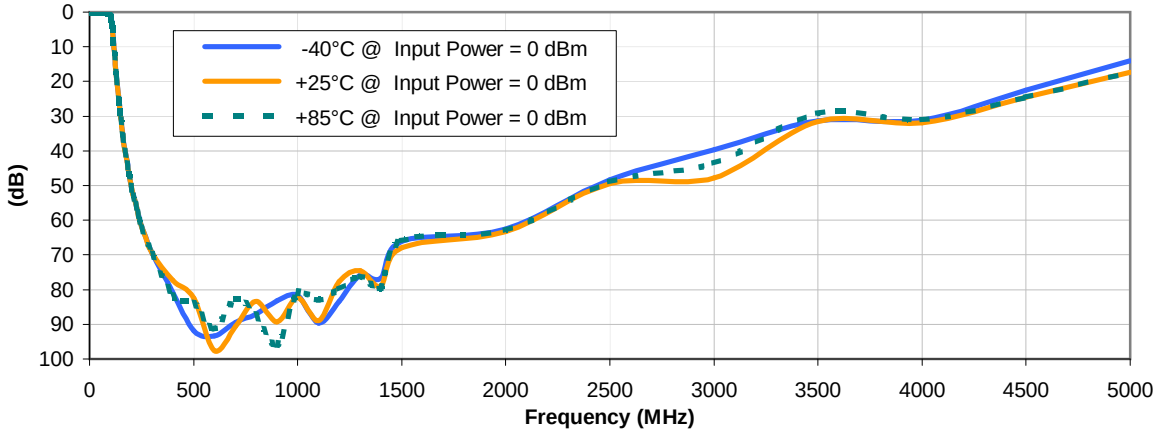



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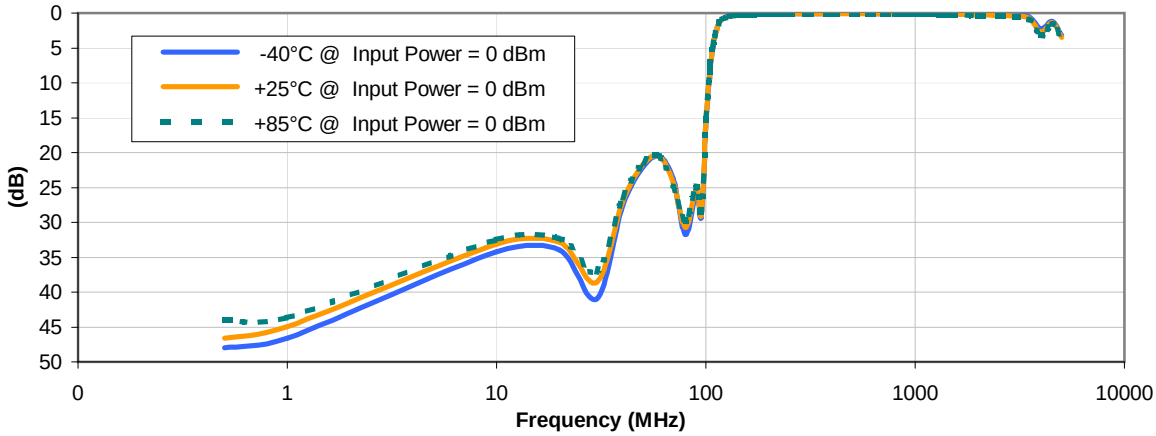
# Surface Mount Low Pass Filter SXLP-95+

## *Typical Performance Curves*

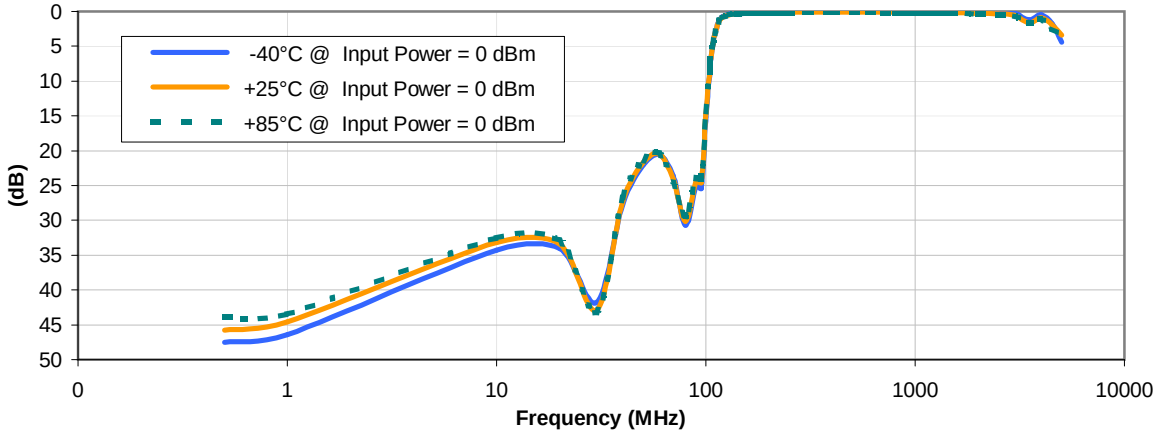
**INSERTION LOSS vs. TEMPERATURE**




**INPUT RETURN LOSS vs. TEMPERATURE**




**OUTPUT RETURN LOSS vs. TEMPERATURE**

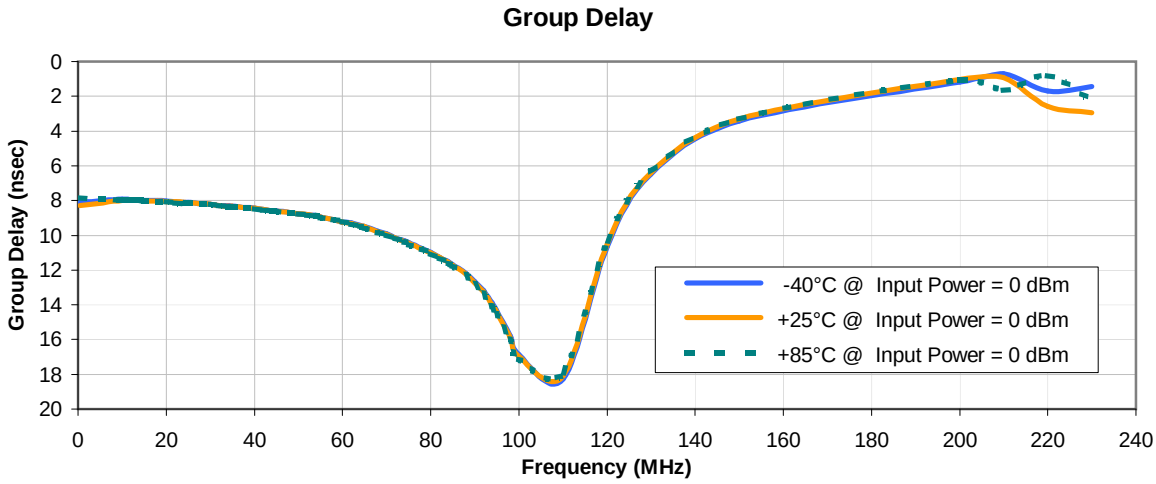






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*Typical Performance Curves*



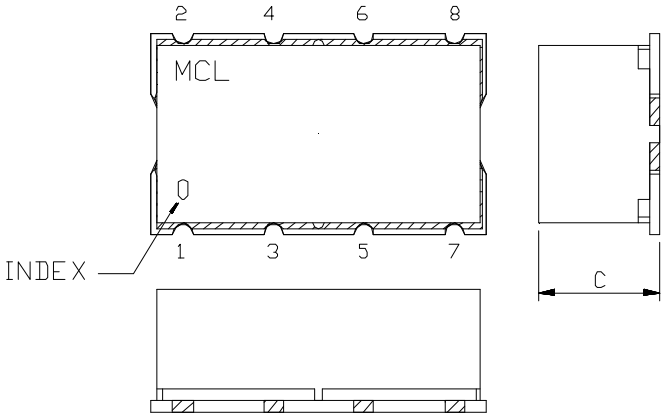


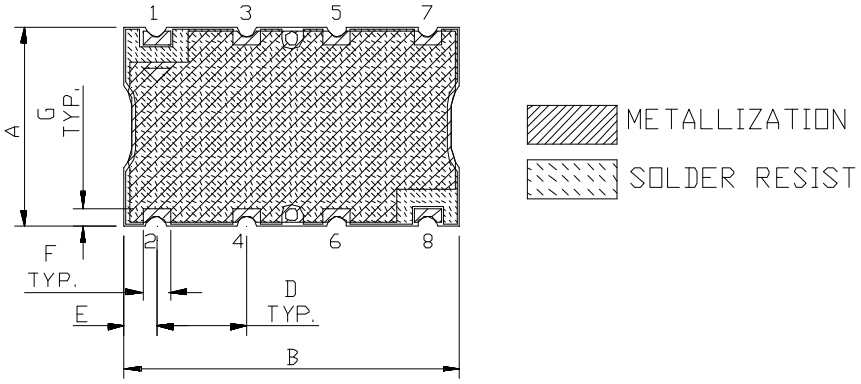

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# Case Style HF

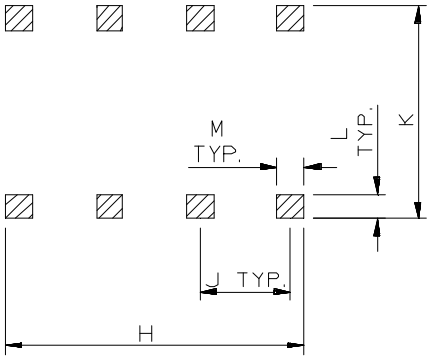
**HF1139**

## Outline Dimensions




### PCB Land Pattern




| CASE # | A | B | C | D | E | F | G | H | J | K | L | M | WT. GRAMS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HF1139 | .44 (11.18) | .74 (18.80) | .27 (6.86) | .200 (5.08) | .07 (1.78) | .060 (1.52) | .040 (1.02) | .660 (16.76) | .200 (5.08) | .470 (11.94) | .055 (1.40) | .060 (1.52) | 3.0 |

**Dimensions are in inches (mm). Tolerances: 2 Pl. ±.015"; 3 Pl. ±.01"**

### Notes:

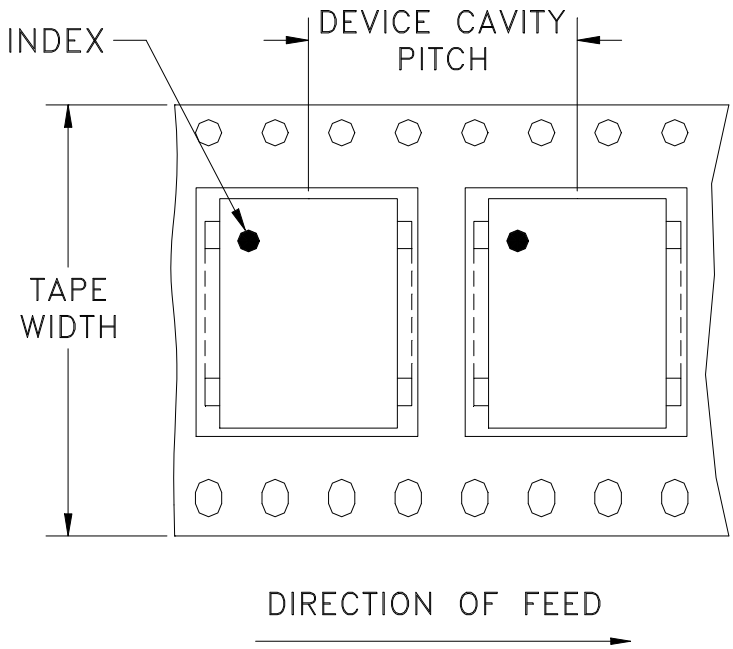
1. Case material: Nickel-Silver alloy.
2. Base: Printed wiring laminate.
3. Termination finish:
   For RoHS Case Styles: 2-5 µ inch (.05-.13 microns) Gold over 120-240 µ inch (3.05-6.10 microns) Nickel plate.
   For RoHS-5 Case Styles: Tin-Lead plate.



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# Tape & Reel Packaging TR-F5

DEVICE ORIENTATION IN T&R




| Tape Width, mm | Device Cavity Pitch, mm | Reel Size, inches | Devices per Reel |
|---|---|---|---|
| 32 | 16 | 13 | 500 |

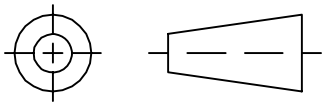
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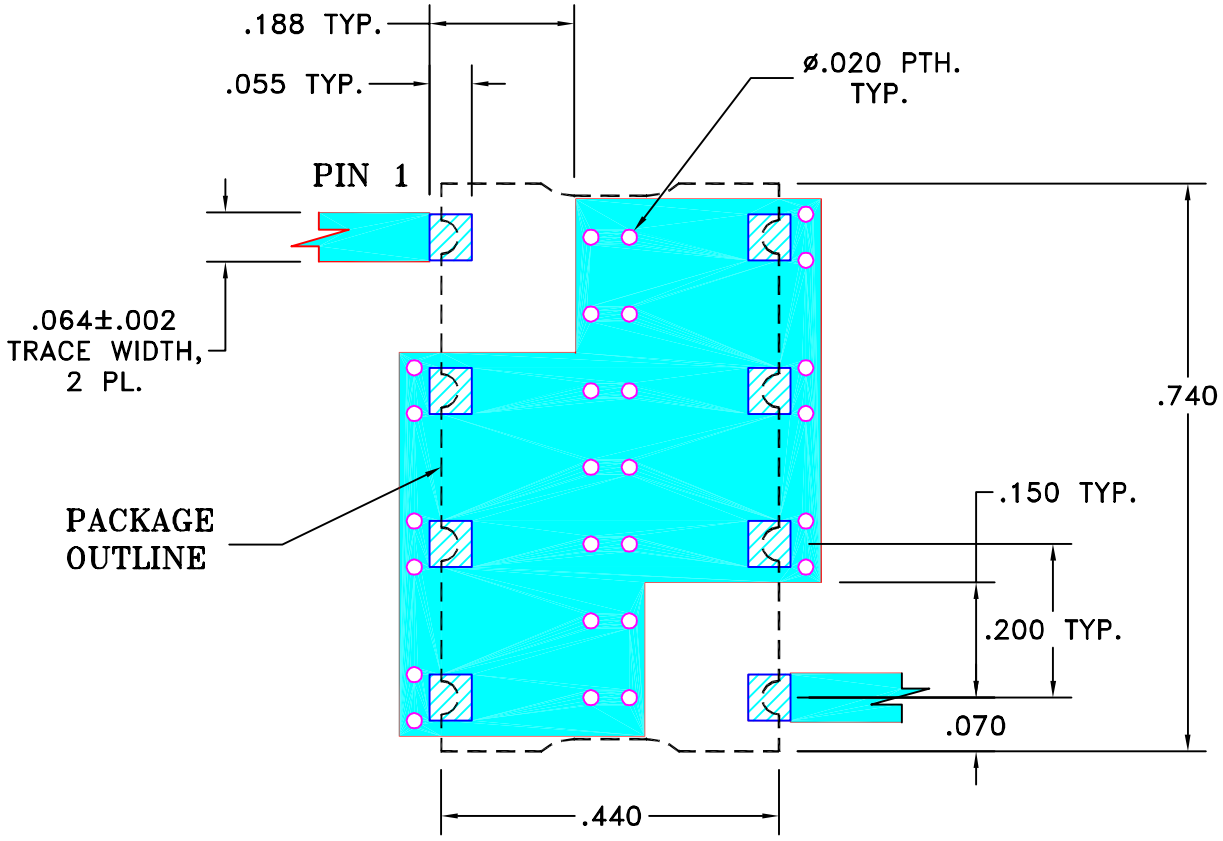
THIRD ANGLE PROJECTION



REVISIONS

| REV | ECN No. | DESCRIPTION | DATE | DR | AUTH |
|---|---|---|---|---|---|
| OR | M101757 | NEW RELEASE (FROM RAVON) | 11/05 | DK | HH |
| OR | R62293 | NEW RELEASE (FROM RAVON) | 11/05 | DK | HH |
| | | | | | |
| | | | | | |

## SUGGESTED MOUNTING CONFIGURATION
## FOR HF1139 CASE STYLE, cr PIN CONNECTION, 50 OHM.




NOTE:

1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS: .025"±.002". 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

| UNLESS OTHERWISE SPECIFIED | | INITIALS | DATE |
|---|---|---|---|
| DIMENSIONS ARE IN INCHES | DRAWN | DK (RAVON) | 29 NOV 05 |
| TOLERANCES ON: | CHECKED | RZ (RAVON) | 29 NOV 05 |
| 2 PL DECIMALS ± | APPROVED | HH (RAVON) | 29 NOV 05 |
| 3 PL DECIMALS ± .005 | | | |
| ANGLES ± | | | |
| FRACTIONS ± | | | |

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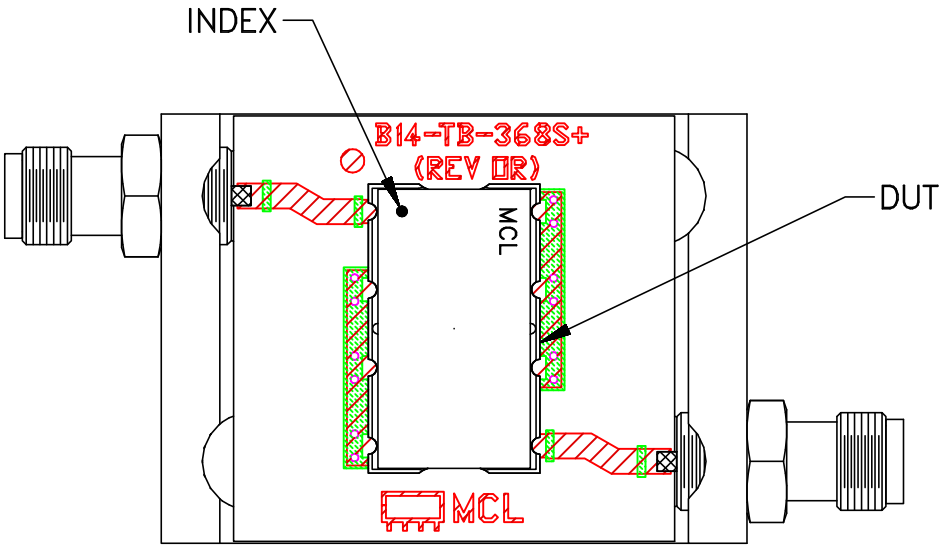
ASHEETA1.DWG REV:A DATE:01/12/95

Mini-Circuits® 13 Neptune Avenue Brooklyn NY 11235

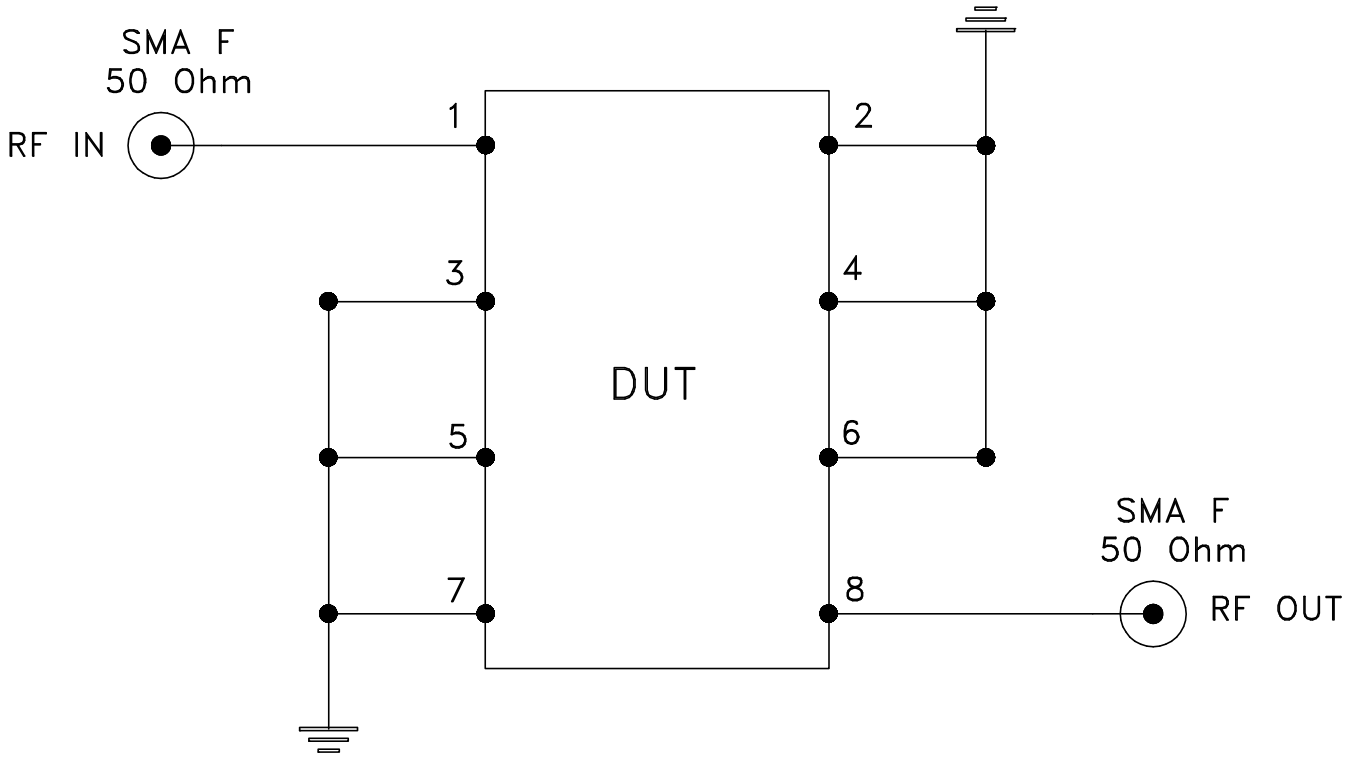
PL, cr, HF1139, SCLF, TB-368

| SIZE | CODE IDENT | DRAWING NO: | REV: |
|---|---|---|---|
| A | 15542 | 98-PL-230 | OR |
| FILE: 98PL230 | SCALE: 4:1 | SHEET: 1 OF 1 | |

# Evaluation Board and Circuit




TB-368




Schematic Diagram

Notes:
1. SMA Female connectors.
2. PCB Material: ROGERS R04350B or equivalent, Dielectric Constant=3.5, Thickness=.030 inch.

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# Environmental Specifications ENV02T1

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

| Specification | Test/Inspection Condition | Reference/Spec |
|---|---|---|
| Operating Temperature | -40° to 85°C<br>Ambient Environment | Individual Model Data Sheet |
| Storage Temperature | -55° to 100° C<br>Ambient Environment | Individual Model Data Sheet |
| Humidity | 90 to 95% RH, 240 hours, 50°C | MIL-STD-202, Method 103, Condition A, Except 50°C and end-point electrical test done within 12 hours |
| Thermal Shock | -55° to 100°C, 100 cycles | MIL-STD-202, Method 107, Condition A-3, except +100°C |
| Solder Reflow Heat | Sn-Pb Eutetic Process: 225°C peak<br>Pb-Free Process 245° - 250°C peak | J-STD-020, Table 4-1, 4-2 and 5-2, Figure 5-1 |
| Solderability | 10X Magnification | J-STD-002, 95% Coverage |
| Vibration (High Frequency) | 20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36) | MIL-STD-202, Method 204, Condition D |
| Mechanical Shock | 50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes | MIL-STD-202, Method 213, Condition A |
| Marking Resistance to Solvents | Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C;<br>distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C | MIL-STD-202, Method 215 |


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