

Features

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

Applications

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

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

| Parameter | F# | Frequency (MHz) | Min. | Typ. | Max. | Unit | |
|-----------|----------------|-----------------|-------------|------|------|------|----|
| Pass Band | Insertion Loss | DC-F1 | DC - 1100 | — | 0.9 | 1.5 | dB |
| | Freq. Cut-Off | F2 | 1225 | — | 3.5 | — | dB |
| | VSWR | DC-F1 | DC - 1100 | — | 1.3 | 1.7 | :1 |
| Stop Band | Rejection Loss | F3-F4 | 1440 - 8500 | 20 | 35 | — | dB |
| | VSWR | F3-F4 | 1440 - 8500 | — | 7 | — | :1 |

Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|-----------|-----------------|--------------------|
| 1.0 | 0.02 | 1.00 | 1.00 | 1.05 |
| 30.0 | 0.05 | 1.02 | 5.00 | 1.11 |
| 70.0 | 0.09 | 1.04 | 10.00 | 1.10 |
| 230.0 | 0.20 | 1.12 | 50.00 | 1.09 |
| 650.0 | 0.39 | 1.16 | 70.00 | 1.09 |
| 1100.0 | 0.84 | 1.30 | 150.00 | 1.08 |
| 1180.0 | 2.00 | 2.51 | 200.00 | 1.09 |
| 1225.0 | 3.71 | 4.35 | 250.00 | 1.09 |
| 1250.0 | 5.02 | 5.95 | 350.00 | 1.11 |
| 1290.0 | 7.73 | 9.63 | 410.00 | 1.13 |
| 1350.0 | 15.58 | 16.56 | 450.00 | 1.14 |
| 1400.0 | 28.98 | 12.26 | 500.00 | 1.15 |
| 1420.0 | 36.47 | 9.43 | 550.00 | 1.17 |
| 1440.0 | 44.14 | 7.34 | 600.00 | 1.19 |
| 1550.0 | 38.36 | 14.62 | 700.00 | 1.25 |
| 3000.0 | 39.92 | 34.07 | 800.00 | 1.33 |
| 5000.0 | 45.67 | 29.96 | 900.00 | 1.45 |
| 6500.0 | 46.93 | 26.33 | 1000.00 | 1.64 |
| 7500.0 | 45.97 | 17.22 | 1050.00 | 1.82 |
| 8500.0 | 30.83 | 9.48 | 1100.00 | 2.07 |

HT-SXLP-1100+



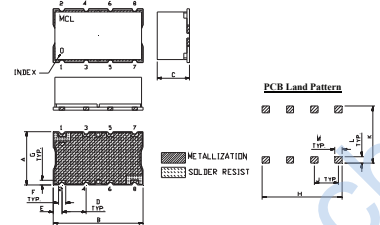
50Ω DC to 1100MHz

| Maximum Ratings | |
|-----------------------|----------------|
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input* | 1W 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 |

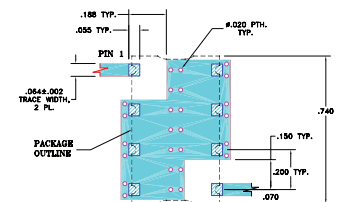
Outline Drawing



Outline Dimensions: Unit (mm)

| | | | |
|----|-------|---|-------|
| A | 11.18 | G | 1.02 |
| B | 18.80 | H | 16.76 |
| C | 6.86 | J | 5.08 |
| D | 5.08 | K | 11.94 |
| E | 1.78 | L | 1.40 |
| F | 1.52 | M | 1.52 |
| WT | 3.0g | | |

Suggested PCB Layout



- 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 GP
- DENOTES PCB COPPER LAYOUT WITH SOLDER MASK OVERLAP.
 ■ DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK MASK OVER BARE COPPER.

