

## Features

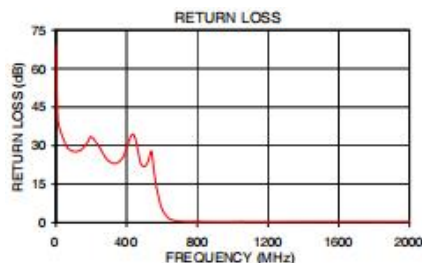
- high rejection
- sharp cut-off
- shielded package
- aqueous washable
- low cost

## Applications

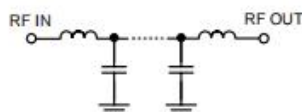
- defense communications
- receivers / transmitters
- harmonic rejection

## Low Pass Filter Electrical Specifications ( $T_{AMB}=25^{\circ}\text{C}$ )

| PASSBAND<br>(MHz) | FCO <sub>2</sub> (MHz)<br>Nom. | STOPBAND<br>(MHz) |               | VSWR(:1)         |                  |
|-------------------|--------------------------------|-------------------|---------------|------------------|------------------|
|                   |                                | (Loss > 20dB)     | (Loss > 40dB) | Passband<br>Typ. | Stopband<br>Typ. |
| DC-550            | 605                            | 800-1050          | 1050-2000     | 1.2              | 18               |



## Functional Schematic



## JY-SXLP-550+



50Ω DC to 550 MHz

## Maximum Ratings

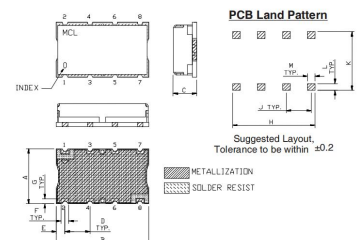
|                       |                |
|-----------------------|----------------|
| Operating Temperature | -40°C to 85°C  |
| Storage Temperature   | -55°C to 100°C |
| RF Power Input*       | 0.5W max.      |

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

## Pin Connections

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

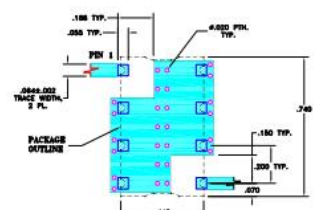
## Outline Drawing



## 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 | 0.3g  |   |       |

## Suggested PCB Layout



NOTE:  
1. TRACE WIDTH IS GIVEN FOR FR4 WITH DIELECTRIC THICKNESS: .005"±.002". COPPER: 1/2 OZ. EACH SIDE.  
FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE ADJUSTED.  
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.  
3. DENOTES PCB COPPER LAYOUT WITH SOLDER MASK OVER BARE COPPER.  
4. DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK