# CER1132A

## 1980-2025 MHz Bandpass Filter

Part Dimensions: 14.8 × 6.0 × 6.6 mm • 2.0 g
Materials: Ag plated ceramic block with tin plated brass shield

### Features

- Low Loss with High Rejection and Low Ripple

### Description

Surface mount ceramic bandpass filter. Superior rejection, insertion loss, reliability, as well as both peak and average power handling compared other bandpass filter technologies.

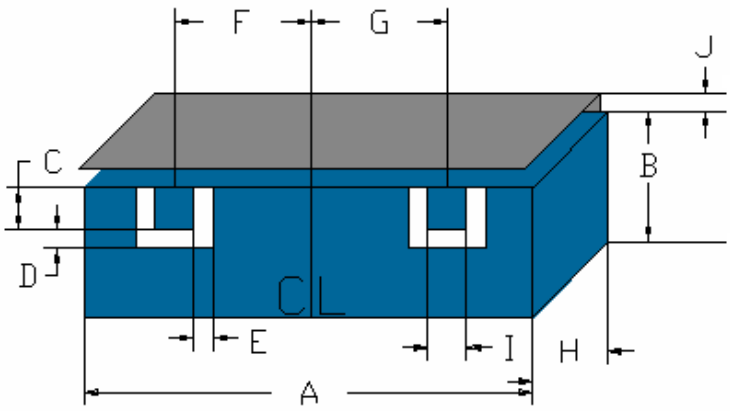
### Electrical Specifications

| Parameter | Frequency (MHz) | Typical at 25°C | Spec. at 25°C | Spec. over -55°C to +85°C |
|---|---|---|---|---|
| Nominal Impedance | - | 50 ohms | - | - |
| Average Input Power | - | - | - | 5.0 Watt max |
| Peak Input Power | - | - | - | 20 Watt max |
| **Input-Output Response** | | | | |
| Passband Insertion Loss | 1980-2025 | 0.8 dB | 1.0 dB max | 1.2 dB max |
| Passband Return Loss | 1980-2025 | 15 dB | 12 dB min | 12 dB min |
| Attenuation: | 1 - 1800 | | 30 dB | 30 dB |
| | 2160-2200 | | 40 dB min | 40 dB min |
| | 2201-4040 | | 20 dB min | 20 dB min |

Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

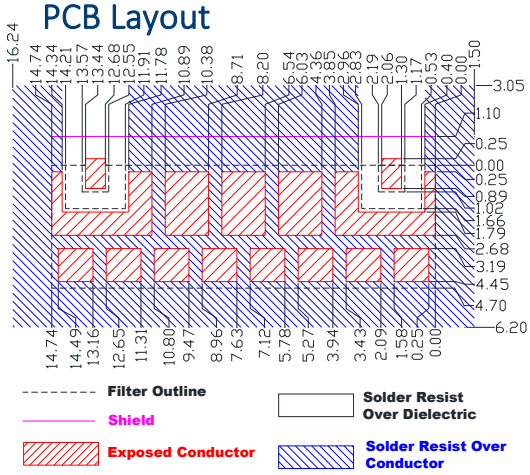
| Specification Allowance | |
|---|---|
| Insertion Loss | 0.1 dB |
| Return Loss | 1.0 dB |
| Attenuation | 1.0 dB |

## Mechanical Drawing




| Dim. | Nominal (mm) | Tolerance (±mm or Max) |
|---|---|---|
| A | 14.74 | max |
| B | 4.70 | max |
| C | 1.02 | 0.13 |
| D | 0.64 | 0.13 |
| E | 0.64 | 0.13 |
| F | 5.69 | 0.13 |
| G | 5.69 | 0.13 |
| H | 6.60 | max |
| I | 1.02 | 0.13 |
| J | 1.10 | 0.20 |

## PCB Layout




IMPORTANT: Please assure >=20mils (0.5mm) thickness of dielectric beneath the I/O Pads and the surrounding clearance zone down to the required ground plane.

Please assure sufficient ground vias between the top metal ground plane and the primary ground plane.

Recommended solder: 4-6 mils of SAC305 with reflow including 120s of soak at 217°C, and up to 30 sec peak at 241°C.

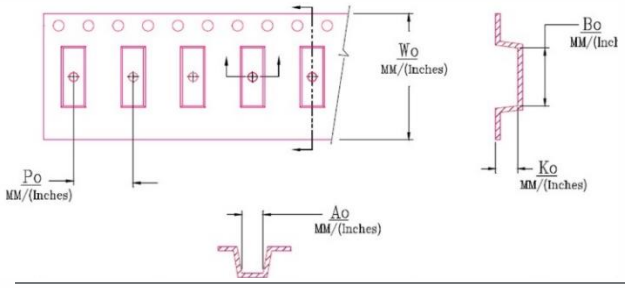
## Packaging and Marking

| Dimension | Units | Spec. |
|---|---|---|
| Reel Diameter | mm | 330 |
| Reel Weight | kg | x.x |
| Reel Quantity | ea. | 500 |

Product Marking

CTS
1132
YWW

Customer Feed Direction → → →




| $W_o$ | $A_o$ | $B_o$ | $K_o$ | $P_o$ |
|---|---|---|---|---|
| 0.945 in<br>24.0 mm | 0.242 in<br>6.15 mm | 0.591 in<br>15.0 mm | 0.268 in<br>6.8 mm | 0.472 in<br>12.0 mm |

## Electrical Response