



# CER0519C - PRELIMINARY

## 5.09-5.15 GHz Bandpass Filter

### Features

- Low Loss
- Low ripple

### Applications

- Wireless Infrastructure applications

### Description

Surface mount ceramic bandpass filter with low loss and ripple.

### Electrical Specifications

Parameter	Frequency (MHz)	Typical at 25°C	Spec. at 25°C	Spec. over -40°C to +85°C
Nominal Impedance	-	50 ohms	-	-
Average Input Power	-	-	-	1.0 Watt max
Peak Input Power	-	-	-	10 Watt max

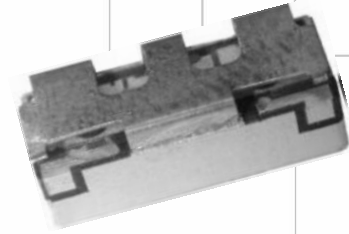
### Input-Output Response

Passband Insertion Loss	5090-5150	1.7 dB max	2.0 dB max
Passband Ripple	5090-5150	0.6 dB max	0.7 dB max
Passband Return Loss	5090-5150	12 dB min	12 dB min
Attenuation:	5630	25 dB min	25 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.

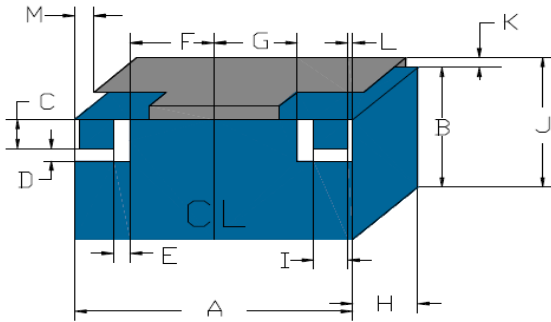
#### Specification Allowance

Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB



Part Dimensions: 11.8 × 4.4 × 4.9 mm • 1.1 g  
Materials: Ag plated ceramic block with tin plated brass shield

### Mechanical Drawing

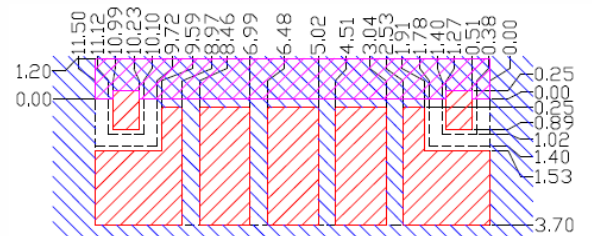


### Electrical Response

Will provide plot after prototype run.

Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	11.50	0.30
B	3.70	max
C	1.02	0.13
D	0.38	0.13
E	0.38	0.13
F	3.97	0.13
G	3.97	0.13
H	4.70	0.13
I	1.02	0.13
J	4.40	max
K	1.10	max
L	0.38	0.13
M	0.80	min

### PCB Layout

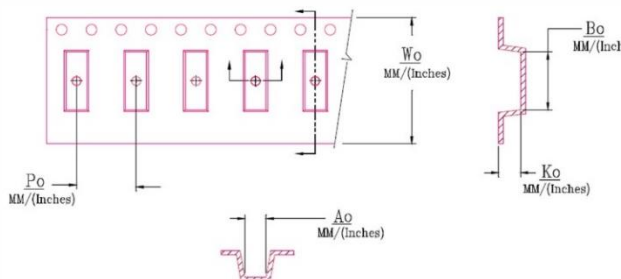


- Filter Outline
- Solder Resist Over Dielectric
- Exposed Conductor
- Solder Resist Over Conductor
- Shield Area. Do not place any other components in this area.

### Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	CTS
Reel Weight	kg	1.7	19C
Reel Quantity	ea.	1000	YWW

Customer Feed Direction → → →



W <sub>0</sub>	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	P <sub>0</sub>
0.945 in 24.0 mm	0.201 in 5.1 mm	0.465 in 11.8 mm	0.195 in 4.95 mm	0.472 in 12.0 mm