

# CER10xxA - PRELIMINARY

## 5.7-5.9 GHz BPF

### Features

- Extra small-size

### Applications

- Wireless Infrastructure applications

### Description

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

### 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	5700 - 5900			2.8 dB max est.
Passband Ripple	5700 - 5900	0.5 dB	1.0 dB max	1.0 dB max
Passband Return Loss	5700 - 5900	12 dB	10 dB min	10 dB min
Attenuation:	1 - 5450			35 dB min target
	6150 - 6800+			35 dB min target

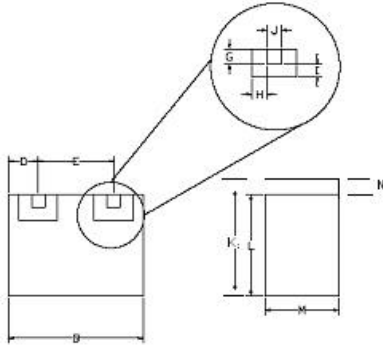
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

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



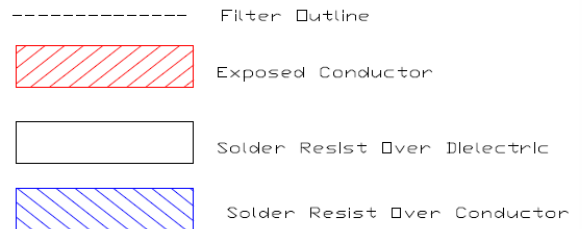
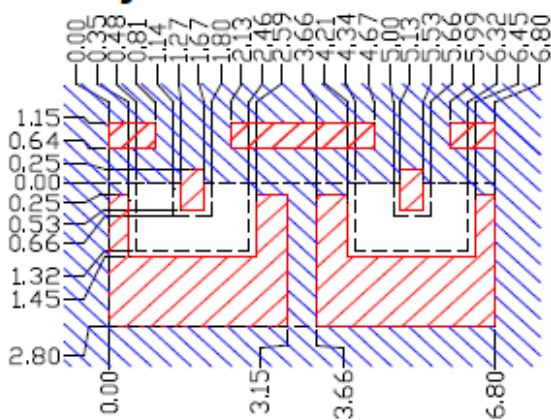
Part Dimensions: **ESTIMATE** 6.8 x 3.0 x 2.6 mm • 0.5g  
Materials: Ag plated ceramic block

## Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A		max
B	6.80	max
L	2.8	max
M	2.6	max

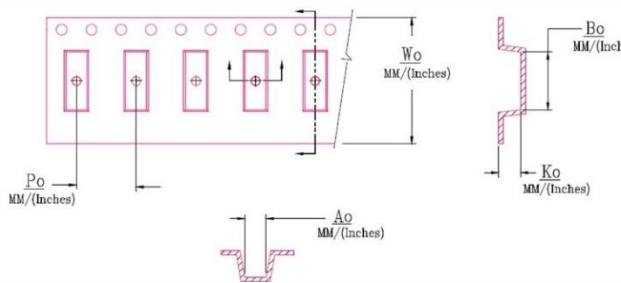
## PCB Layout



## Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	CTS
Reel Weight	kg	1.5	Oxx
Reel Quantity	ea.	1000	YWW

Customer Feed Direction → → →



$W_0$	$A_0$	$B_0$	$K_0$	$P_0$
0.630 in 16.0 mm	0.161 in 4.1 mm	0.280 in 7.1 mm	0.102 in 2.6 mm	0.315 in 8.0 mm

## Electrical Response

