

# CER1086A - PRELIMINARY

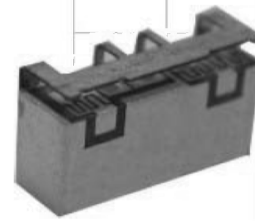
## 6315-6455 MHz Bandpass Filter

### Features

- Low Loss with High Rejection
- Low ripple
- Compatible with MTB family footprint

### Applications

- Wireless Infrastructure applications



Part Dimensions: 9.0 × 4.3 × 3.1 mm • TBD g  
Materials: Ag plated ceramic block with tin plated brass shield

### 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 -40°C to +105°C
Nominal Impedance	-	50 ohms	-	-
Average Input Power	-	-	-	2.0 Watt max
Peak Input Power	-	-	-	20 Watt max

#### Input-Output Response

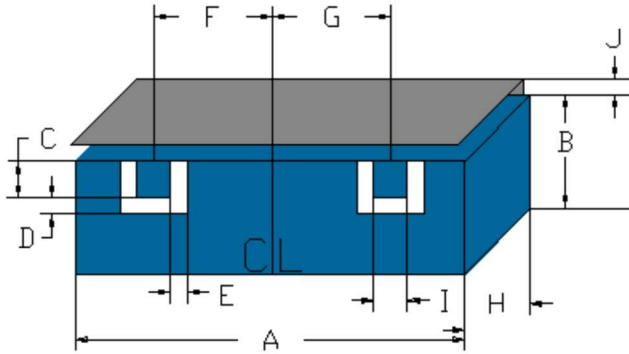
Passband Insertion Loss (single point)	6315 - 6455	1.7 dB	2.0 dB min	2.2 dB min
Passband Ripple	6315 - 6455	0.2 dB	0.4 dB min	0.5 dB min
Passband Return Loss	6315 - 6455	12 dB	10 dB min	10 dB min
Attenuation:	1 - 6015	40 dB	35 dB min	35 dB min
	6754 - 7230	46 dB	43 dB min	43 dB min
	7300 - 8000	40 dB	35 dB min	35 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

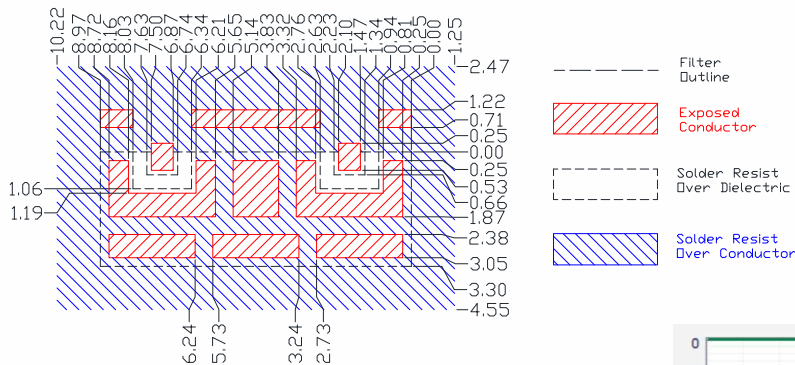
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

### Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	8.97	max
B	3.30	max
C	0.66	0.13
D	0.40	0.13
E	0.40	0.13
F	2.70	0.13
G	2.70	0.13
H	3.10	max
I	0.89	0.13
J	1.00	max

### PCB Layout

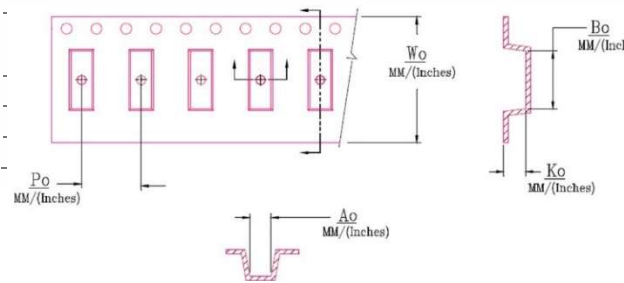


**IMPORTANT:** Please assure  $\geq 29.5$  mils (0.75mm) thickness of dielectric beneath the I/O Pads and the surrounding clearance zone down to the required ground plane.

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



$W_0$	$A_0$	$B_0$	$K_0$	$P_0$
0.945 in 24.0 mm	0.177 in 4.5 mm	0.366 in 9.30 mm	0.132 in 3.35 mm	0.315 in 8.0 mm

### Product Marking

CTS  
1086  
YWW

