

CER1028A - PRELIMINARY

3.3-3.6 GHz Bandpass Filter

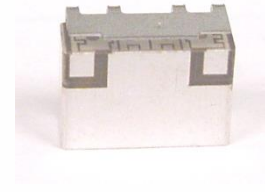
Features

- Low Loss with High Rejection
- Low ripple

Applications

- Wireless Infrastructure applications

Part Dimensions: 10.2 × 6.2 × 4.0 mm • 1.0 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 +85°C
Nominal Impedance	-	50 ohms	-	-
Average Input Power	-	-	-	2.0 Watt max
Peak Input Power	-	-	-	20 Watt max
Input-Output Response				
Passband Insertion Loss (100 MHz avg)	3300 – 3600	0.9 dB	1.3 dB max	1.5 dB max
Passband ripple	3300 – 3600	0.3	0.5 dB	0.5 dB max
Passband Return Loss	3300 – 3600	14 dB	13dB min	13 dB min
Attenuation:	2100	58 dB	40 dB min	40 dB min
	4400	49 dB	15 dB min	40 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.

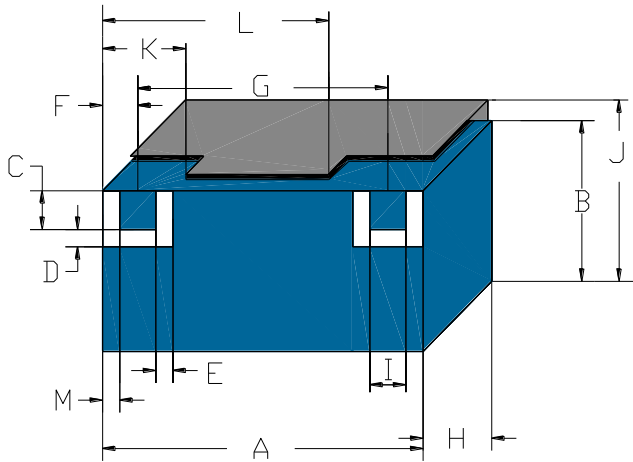
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB



PRELIMINARY - CER1028A

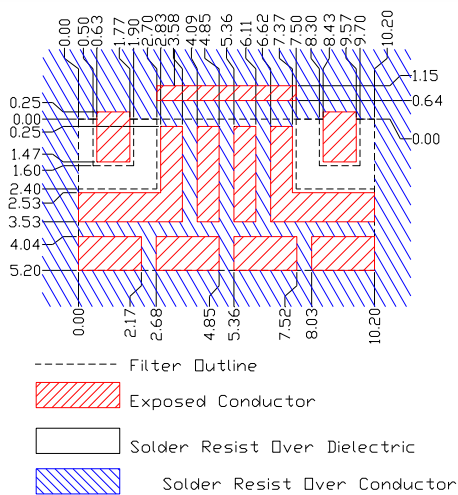
3.3-3.6 GHz Bandpass Filter

Mechanical Drawing

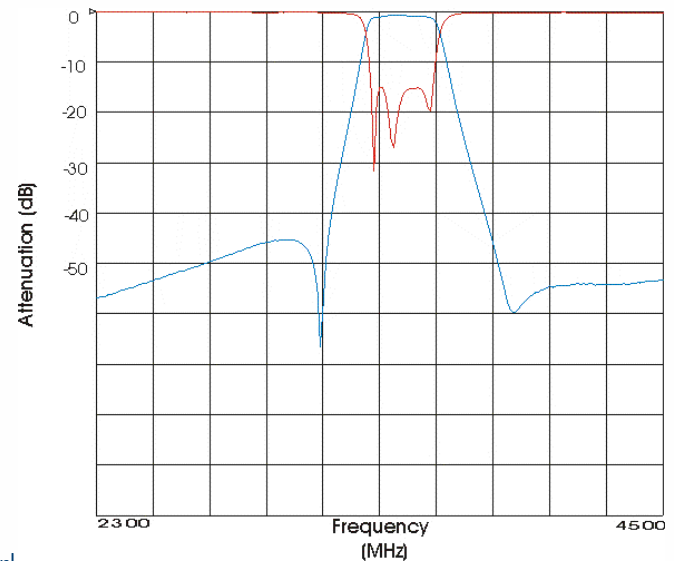


Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	10.20	max
B	5.20	max
C	1.60	0.13
D	0.80	0.13
E	0.80	0.13
F	1.20	0.13
G	7.80	0.13
H	4.00	max
I	1.40	0.13
J	6.2	max
K	2.70	0.13
L	7.50	0.13
M	0.50	0.13

PCB Layout



Electrical Response



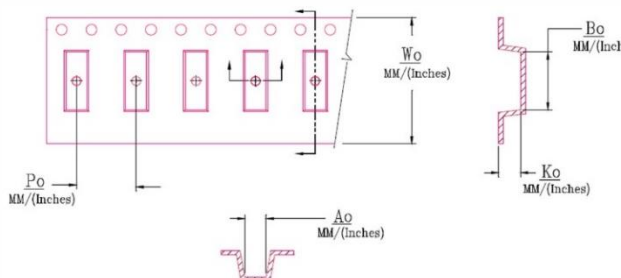
Packaging and Marking

Dimension	Units	Spec.
Reel Diameter	mm	330
Reel Weight	kg	1.6
Reel Quantity	ea.	1000

Product Marking

CTS
 1028
 YWW

Customer Feed Direction → → →



W ₀	A ₀	B ₀	K ₀	P ₀
0.945 in 24.0 mm	0.260 in 6.6 mm	0.406 in 10.2 mm	0.165 in 4.2 mm	0.472 in 12.0 mm

2016-03-02 Rev. A

www.ctscorp.com

Page 2 of 2

©2015 CTS® Corporation. Information/product(s) subject to change. No warranty that product(s) will meet the stated specifications for customer specific applications or test equipment. Visit www.ctscorp.com for list of applicable patent(s), more information, or to request a quote.