CER1208A - PRELIMINARY

B26 DL 859-894MHz Bandpass Filter

Features

- Low Loss with High Rejection
- Low ripple

Part Dimensions: 21.6 × 9.8 × 4.0 mm • TBD g
Materials: Ag plated ceramic block with tin plated brass shield

Applications

- Wireless Infrastructure applications
- High-performance carrier-grade single-band TDD Pico-cell basestations for up to 2.0W at the antenna port.

Description

Surface mount ceramic bandpass filter supports a universal footprint across all TDD frequency bands enabling the use of a common system PCB. Provides superior rejection, 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	-	-	-	2.0 Watt max
Peak Input Power	-	-	-	20 Watt max
Input-Output Response				
Passband Insertion Loss	859-894	4.7 dB	4.9 dB max	5.1 dB max
Passband Ripple	859-894	2.2 dB	2.5 dB max	2.6 dB max
Passband Return Loss	859-894	14 dB	12 dB min	12 dB min
Attenuation:	1-813	55 dB	50 dB min	50 dB min
	814-849	38 dB	36 dB min	36 dB min
	925-TBD	45 dB	40 dB min	40 dB min

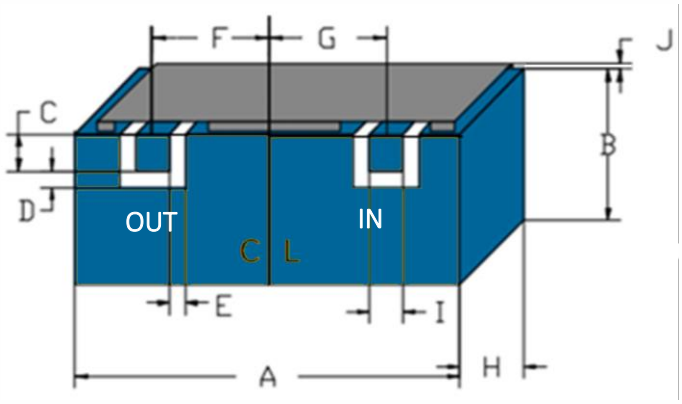
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

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

PRELIMINARY - CER1208A

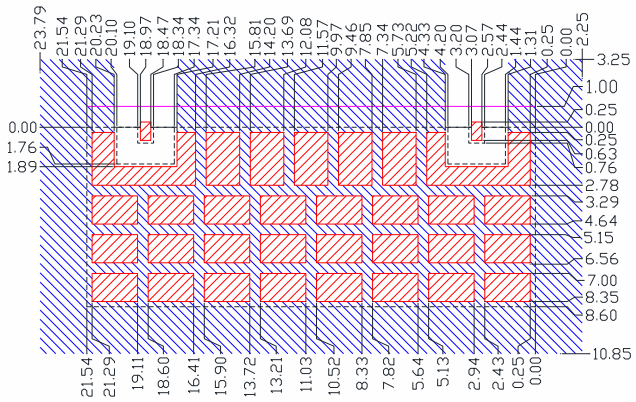
B26 DL 859-894MHz Bandpass Filter

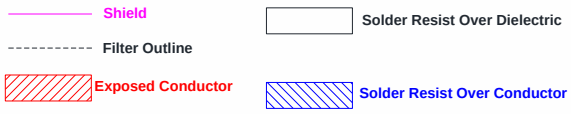
Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	21.54	max
B	8.60	max
C	0.76	0.13
D	1.00	0.13
E	1.00	0.13
F	7.95	0.13
G	7.95	0.13
H	4.00	max
I	0.76	0.13
J	1.00	0.20

PCB Layout





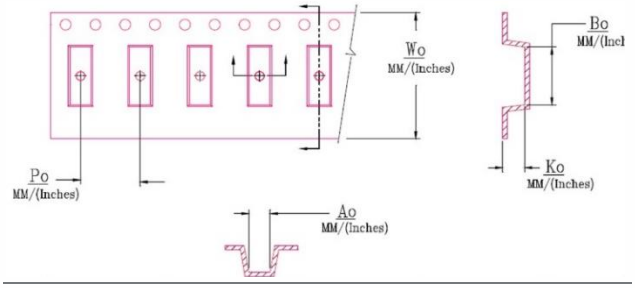
Packaging and Marking

Dimension	Units	Spec.
Reel Diameter	mm	330
Reel Weight	kg	5.5
Reel Quantity	ea.	500

Product Marking

CTS
208
YWW

Customer Feed Direction → → →



W_o	A_o	B_o	K_o	P_o
1.732 in	0.398 in	0.865 in	0.165 in	0.630 in
44.0 mm	10.1 mm	21.97 mm	4.20 mm	16.0 mm

Electrical Response