



DLY0012A

Band 3 DL RF Delay Filter

Features

- Flat group delay response

Applications

- Wireless Infrastructure applications

Description

Surface mount ceramic RF delay filter.

Part Dimensions: 10.5 × 3.7 × 11.0 mm • 2.0 g
Materials: Ag plated ceramic block

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	-	-	-	10.0 Watt max

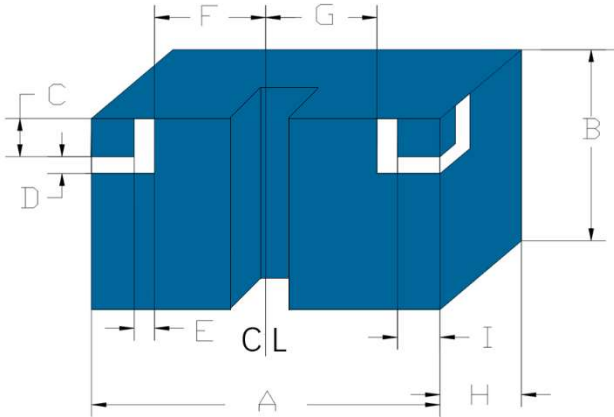
Input-Output Response

Passband Insertion Loss (5 MHz avg)	1805 - 1880	3.2 dB	3.5 dB max	3.8 dB max
Passband Amplitude Ripple (whole band)	1805 - 1880	0.4 dB	0.5 dB max	0.6 dB max
Passband Return Loss	1805 - 1880	14 dB	11.5 dB min	11.5 dB min
Passband Group Delay	1805 - 1880	18 ns	17-20 ns	17-20 ns
Group Delay Ripple (any 20MHz)	1805 - 1880	1.8 ns	2.0 ns max	2.0 ns max

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.

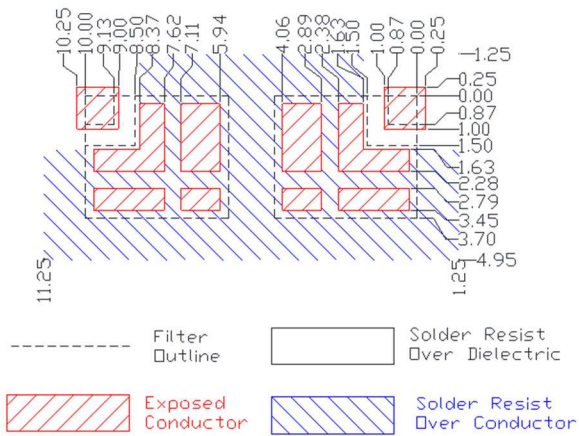
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing

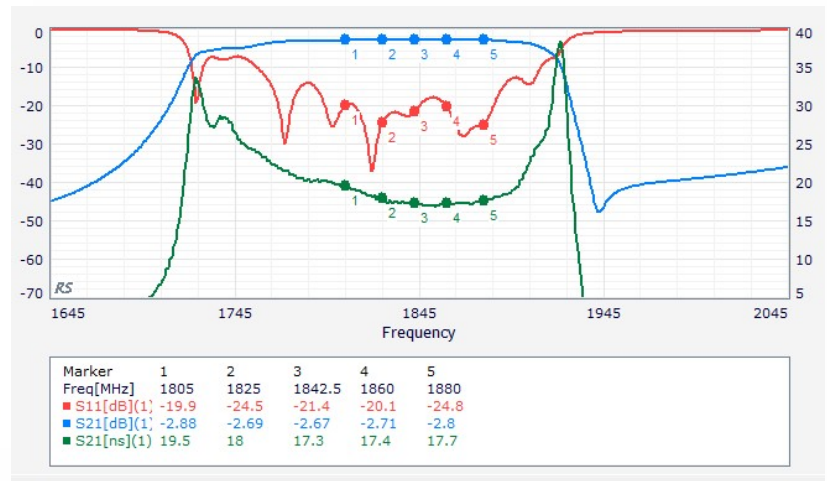


Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	10.5	max
B	3.70	max
C	1.00	0.13
D	0.50	0.13
E	0.50	0.13
F	3.50	0.13
G	3.50	0.13
H	11.0	Max
I	1.00	0.13

PCB Layout



Electrical Response



Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	CTS 012 YWW
Reel Weight	kg	2.5	
Reel Quantity	ea.	1000	

W _o	A _o	B _o	K _o	P _o
0.945 in 24.0 mm	0.150 in 3.8 mm	0.417 in 10.6 mm	0.453 in 11.5 mm	0.472 in 12.0 mm

Customer Feed Direction → → →

