



MSL-1

RoHS
Compliant

DLY0015A

2402-2482MHz WiFi Band RF Delay Filter

Features

- Flat group delay response

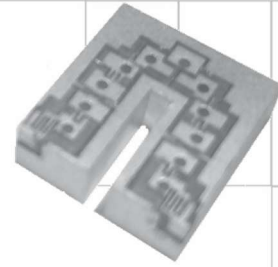
Applications

- Wireless Infrastructure applications

Description

Surface mount ceramic RF delay filter.

Part Dimensions: 10.0 × 4.1 × 11.0 mm • 2.1 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

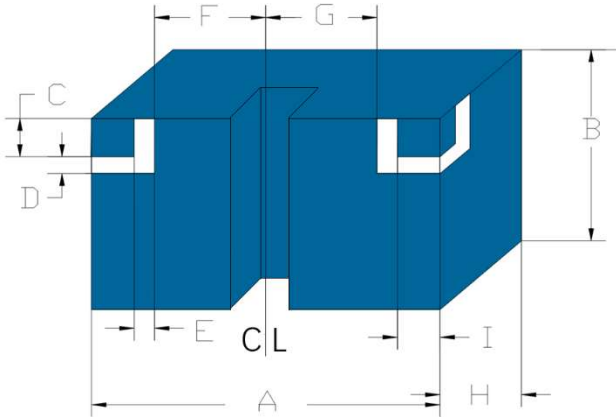
Passband Insertion Loss (5 MHz avg)	2402 - 2482	3.2 dB	3.5 dB max	3.8 dB max
Passband Amplitude Ripple (whole band)	2402 - 2482	0.4 dB	0.5 dB max	0.5 dB max -
Passband Return Loss	2402 - 2482	14 dB	11.5 dB min	11.5 dB min
Passband Group Delay	2402 - 2482	18 ns	17-20 ns	17-20 ns
Group Delay Ripple (any 20MHz)	2402 - 2482	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

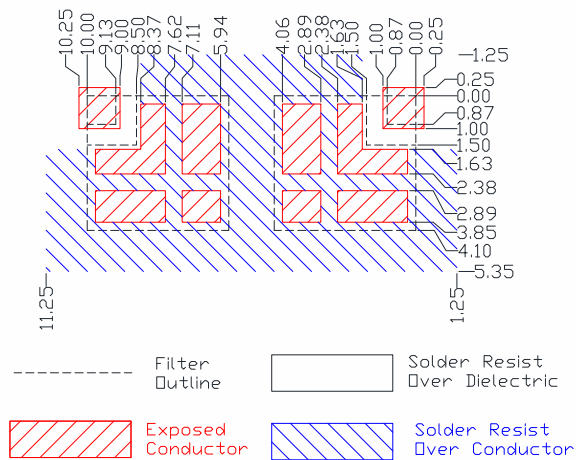
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing

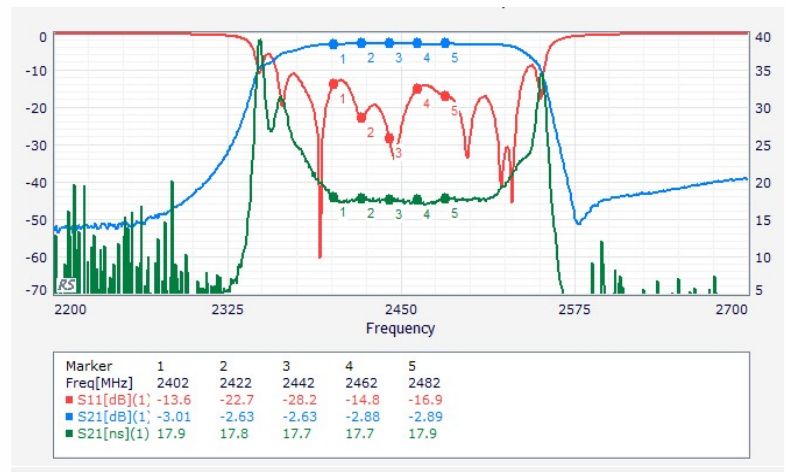


Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	10.0	0.5
B	4.10	max
C	1.00	0.13
D	0.50	0.13
E	0.50	0.13
F	3.50	0.13
G	3.50	0.13
H	11.0	max
I	1.00	0.13

PCB Layout



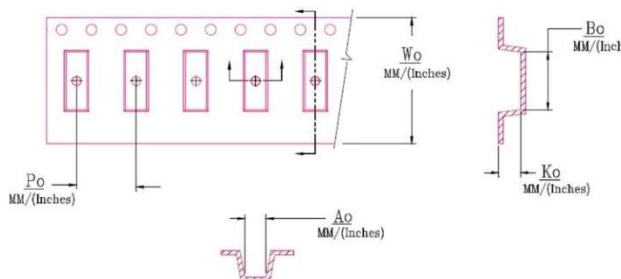
Electrical Response



Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	CTS 015 YWW
Reel Weight	kg	2.5	
Reel Quantity	ea.	1000	

Customer Feed Direction → → →



W_o	A_o	B_o	K_o	P_o
0.945 in 24.0 mm	0.161 in 4.10 mm	0.417 in 10.60 mm	0.453 in 11.5 mm	0.472 in 12.0 mm