

UMB074A - PRELIMINARY 729-746 MHz Bandpass Filter

Features

- Low loss with high rejection

Applications

- Specialty wireless infrastructure applications

Description

Surface mount ceramic bandpass filter with 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 -55°C to +85°C
Nominal Impedance	-	50 ohms	-	-
Average Input Power	-	-	-	20 Watt max
Peak Input Power	-	-	-	200 Watt max

Input-Output Response

Passband Insertion Loss (5MHz Average)	729 - 746	0.8 dB	1.0 dB max	1.0 dB max
Passband Ripple	729 - 746	0.5 dB	0.7 dB max	0.7 dB max
Passband Return Loss	729 - 746	15 dB	14 dB min	14 dB min
Attenuation:	698-715	25 dB	20 dB min	20 dB min
	716	29 dB	28 dB min	28 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



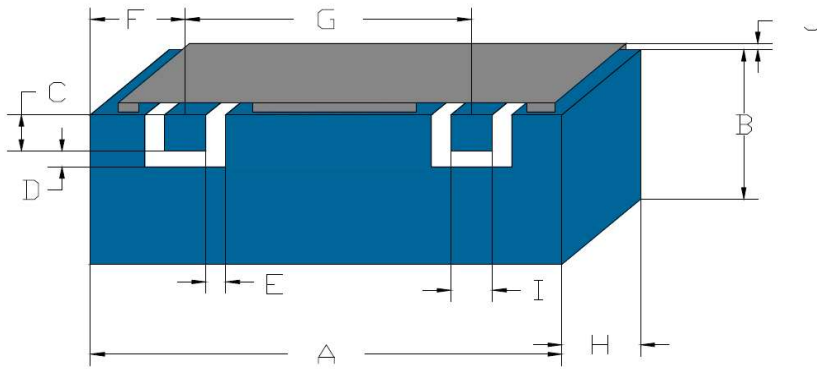
Part Dimensions: 56.4 × 16.0 EST × 14.7 mm • < 60.4 g EST
Materials: Ag plated ceramic block with tin plated brass shield



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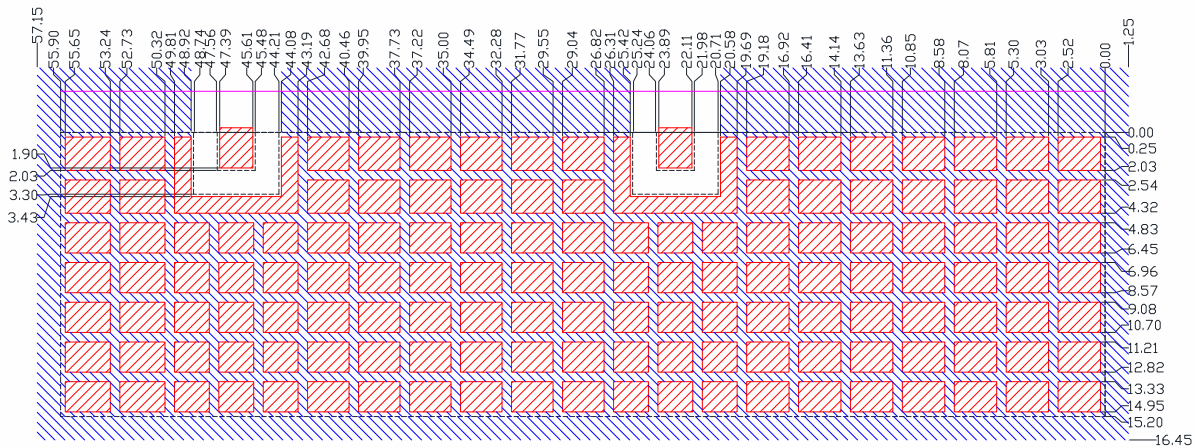
729-746 MHz Bandpass Filter

Mechanical Drawing

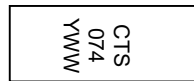


Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	55.9	0.50
B	15.2	Max
C	2.03	0.13
D	1.27	0.13
E	1.27	0.13
F	23.0	0.25
G	23.5	0.13
H	14.5	0.20
I	2.03	0.13
J	2.20	0.2

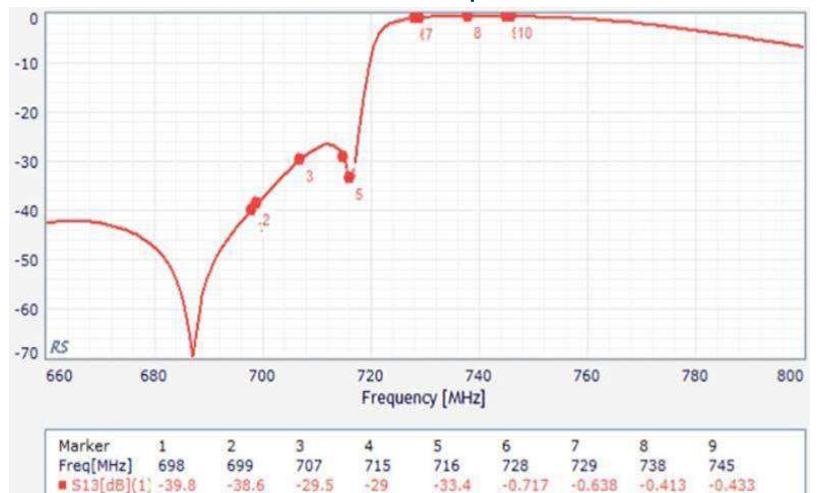
PCB Layout



Packaging and Marking



Electrical Response



Packaging TBD



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