LTT□MA Series

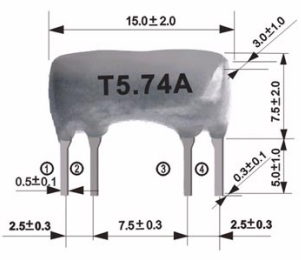
& Feature:

LTT□MA Series of Ceramic Filter For TV/VCR Stage (High-Selectivity Type)

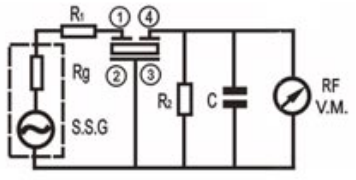
& Electrical Specifications

Part Number	Nominal Center Frequency(fn)(MHz)	3dB Band Width(kHz)min	20dB Band Width (kHz)max	Insertion Loss(dB)max	Spurious Attenuation (dB)min	Input/Output Impedance(Ω)
LTT4.5MA	4.500	fn±40	370	10.0	40($4.5^{+0.8}_{-1.0}$MHz)	1000
LTT4.72MA	4.724	fn±40	370	10.0	40($4.72^{+0.8}_{-1.0}$MHz)	1000
LTT5.5MA	5.500	fn±50	350	9.0	50(5.5±1MHz)	600
LTT5.74MA	5.742	fn±50	350	9.0	50(5.74±1MHz)	600
LTT6.0MA	6.000	fn±50	400	9.0	50(6.0±1MHz)	470
LTT6.25MA	6.250	fn±50	400	9.0	50(6.25±1MHz)	470
LTT6.5MA	6.500	fn±50	400	9.0	50(6.5±1MHz)	470
LTT6.74MA	6.742	fn±50	400	9.0	50(6.74±1MHz)	470

& Dimension:



(1) Input (2)(3) Ground (4) Output



Test circuit
Rg+R1=R2=Input and Output Impedance
C=10PF
(Including stray capacitance and
input capacitance of RF voltmeter)

& Physical and Environmental Characteristics:

No	Item	Condition of Test	Performance Requirements

6-1	Lead Strength Lead Pulling Lead Bending	Force of 0.5kg is applied to each lead in axial direction.When force of 0.25kg to each lead in axial direction,the lead shall folded up to 90 degree from the axial direction and folded back to the axial direction.	No mechanical damage and the measured values shall meet Item 5.
6-2	Solderability	The terminals of the filter Shall be immersing in a soldering bath(230 5℃) for 5 0.5 sec.	The solder shall coat at least 90% of the surface of terminal.
6-3	Vibration	Filter shall be measured after being applied vibration as below Vibration Freq.:600 to 3, 300r.p.m Amplitude:1.5mm Directions:3 axial directions Time:1 hour/each direction	The measured value shall meet Table 2.
6-4	Random Drop	Filter shall be measured after 3 times random dropping from the height of 70cm to the wood plate.	
6-5	Resistance to Soldering Heat	After immersing the terminals up to 2mm to filter' body in soldering bath(350 5℃) for 3 0.5sec.,filter shall be measured after being placed in natural condition for 1 hour.	
6-6	Temperature Characteristics	Filter shall be measured within -20℃ to 80℃ temperature range.Temperature coefficient(Center Frequency of 3dB Bandwidth) Variation of Insertion Loss	Ref. to value of:+20℃: 100ppm/℃max. : 2dB
6-7	Humidity	After being placed in a chamber(Humi.:90-95%RH,Temp.:40 2℃)for 1000 hours,filter shall be measured after placed in natural condition for 1 hour.	The measured value shall meet Table 1.
6-8	Life Test(high temperature)	After being placed in a chamber(Temp.:80℃) for 1000 hours,filter shall be measured after being placed in natural condition for 1 hour.	
6-9	Life Test(low temperature)	After being placed in a chamber(Temp.:-20℃) for 1000 hours,filter shall be measured after being placed in natural condition for 1 hour.	
6-10	Thermal Shock	After temperature cycling of -55℃(30 minutes)to 85℃(30 minutes) was performed 5 times,filter shall be measured after placed in natural condition for 1 hour.	

TABLE1

Item	Limit Value
3dB Bandwidth	25KHz
20dB Bandwidth	40KHz
Insertion Loss	2 dB

*Notice: The limits in the above table are referenced to the initial measurements.

Notice

1).This specification limits the quality of the components as a single unit. Pleas make sure that the component is evaluated and confirmed the drawing when it is mounted to your product.

2). We can't warrant against mishaps caused by any use of this product that deviates from intended use as described in this drawing.