Ceramic Filter

DIP type, LT□MB series

LT□MB Series

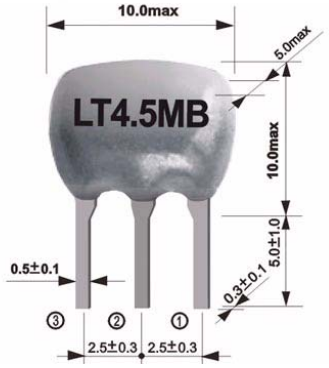
& Feature:

LT□MB Series of Ceramic Filter For TV/VCR Stage

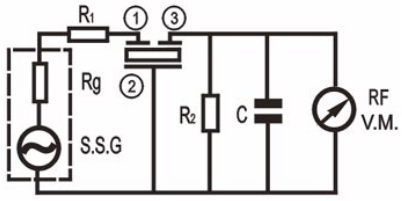
& Electrical Specifications

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)
LT4.5MB	4.500	fn±50	530	6.0	20(4.5$^{+0.8}_{-1.0}$MHz)	1000
LT5.5MB	5.500	fn±75	550	6.0	25(5.5±1MHz)	600
LT6.0MB	6.000	fn±80	600	6.0	25(6.0±1MHz)	470
LT6.5MB	6.500	fn±80	630	6.0	25(6.5+1MHz) 30(6.5-1MHz)	470

& Dimension:



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



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
7.1	Humidity	Keep the filter at 40±2℃ and 90-95% RH for 96±4 hours. Then release the filter into the room condition for 1 hour prior to the measurement.	It shall fulfill the specifications in Table1.
7.2	High Temperature Exposure	Subject the filter to 80±5℃ for 96±4 hours. Then release the filter into the room conditions for 1 hour prior to the measurement.	It shall fulfill the specification in Table 1.

7.3	Low Temperature	Subject the filter to -20±5℃ for 96±4 hours. Then release the filter into the room conditions for 1 hour prior to the measurement.	It shall fulfill the specification in Table 1.
7.4	Temperature Cycling	Subject the filter to -20℃ for 30 min.followed by a high temperature of 70℃ for 70 min.Cycling shall be repeated 5 times with a transfer time of 15 min.at the room condition.Then release the filter into the room temperature for 1hour prior to the measurement.	It shall fulfill the specification in Table 1.
7.5	Vibration	Subject the filter to vibration for 2 hours each in x.y and z axis with the amplitude of 1.5mm,the frequency shall be varied uniformly between the limits of 10--55Hz	It shall fulfill the specification in Table 1.
7.6	Mechanical Shock	Drop the filter randomly onto a concrete floor from the height of 1 meter 3 times.	It shall fulfill the specification in Table 1.
7.7	Resistance to Solder Heat	Dip the filter terminals no closer than 2 mm into the solder bath at 260±10℃ for 3±0.5 sec.	It shall fulfill the specification in Table 1.
7.8	Solderability	Dip the filter terminals no closer than 2 mm into the solder bath at 235±5℃ for 3±0.5 sec.	More than 95% of the terminal surface of the filter shall be covered with fresh solder.
7.9	Lead Fatigue (1)Pull Test	Weight along with the direction of terminals without any shock 5 Newton for 10 sec.	The filter shall show no evidence of damage and shall fulfill all the initial electric characteristics
	(2)Bending Test	Lead shall be subject to Withstand against 90 degree bending At its stem.This operation shall be done towards both directions.	

TABLE1

ITEM	SPECIFICATIONS
Center Frequency Shift	30KHz max.
Insertion Loss Shift	2 dB max.
3 dB Band Width	20KHz max.
20dB Band Width	30KHz max.