Ceramic Filter

DIP type, LT450/455□U/W series

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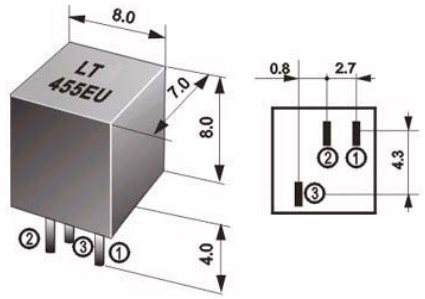
& Feature:

LT455/450□U/W Series of Ceramic Filter For Communication

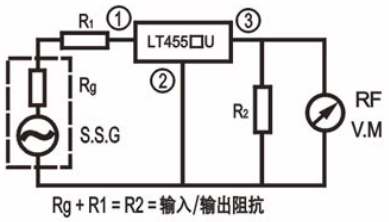
& Electrical Specifications

Part Number		Center Frequency (kHz)	Insertion Loss(dB) max	pass Band Ripple(dB) max	6dB Band Width(kHz) min	40dB Band Width (kHz)max (LT455□U)	50dB Band Width (kHz)max (LT455□W)	Stop Band Attenuation f±100kHz(dB) min		Input/ Output Impedance (Ω)
								(LT455 □U)	(LT455 □W)	
LT455BU	LT455BW	455±2.0	4	2	±15	±30	±30	28	40	1500
LT455CU	LT455CW	455±2.0	4	2	±12.5	±24	±24	28	40	1500
LT455DU	LT455DW	455±1.5	4	2	±10	±20	±20	28	40	1500
LT455EU	LT455EW	455±1.5	6	2	±7.5	±15	±15	28	40	1500
LT455CU	LT455FW	455±1.5	6	2	±6	±12.5	±12.5	28	40	2000
LT455GU	LT455GW	455±1.5	6	2	±4.5	±10	±10	28	40	2000
LT455HU	LT455HW	455±1.0	6	2	±3	±9	±9	28	40	2000
LT455IU	LT455IW	455±1.0	6	2	±2	±7.5	±7.5	28	40	2000
LT455HTU	LT455HTW	455±1.0	6	2	±3	±9	±9	35	60	2000

& Dimension:



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



Rg+R1=R2=Input/Output Impedance

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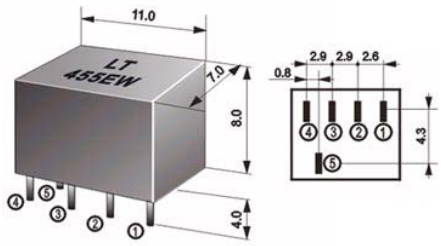
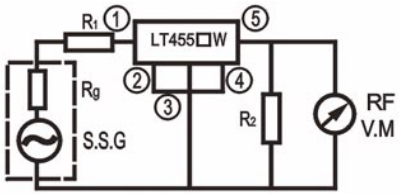


1)Input (2)(3)(4)Ground (5)Output



Rg+R1=R2=Input/Output Impedance

& Physical and Environmental Characteristics:

No	Item	Condition of Test	Performance Requirements
7.1	Moisture	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 Table 1.
7.2	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 specifications in Table 1.
7.3	Mechanical Shock	Drop the filter randomly onto a concrete floor from the height of 30cm 3 times.	It shall fulfill the specifications in Table 1.
7.4	Resistance to Solder Heat	Dip the filter terminals no closer than 2mm into the solder bath at 260 5 for 10 1 sec.	It shall fulfill the specifications in Table 1.
7.5	Solderability	Dip the filter terminals no closer than 2mm into the solder bath at 235 5℃ for 2 0.5 sec.	More than 95% of the terminal surface of the filter shall be covered with fresh solder
7.6	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 specifications in Table 1.
7.7	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 specifications in Table 1.
7.8	Temperature Cycling	Subject the filter to -20℃ for 30 min.,followed by a high temperature of 80℃ for 30 min,Cycling shall be repeated 5 times with a transfer time of 15 sec.At the room condition.Then release the filter into the room conditions for 1 hour prior to the measurement.	More than 95% of the terminal surface of the resonator shall be covered with fresh solder.
7.9	Lead Fatigue (1)Pulling Test	Weight along with the direction of leads without any shock 10 newton.	The filter shall show no evidence of damage and shall satisfy all the initial 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..	

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TABLE1

ITEM	SPECIFICATIONS
Ripple	3dB max
Center frequency	1.0KHz max
6dB Band Width	1.0KHz max
40dB Band Width	2.0KHz max
50dB Band Width	2.0KHz max
Insertion Loss	2dB max

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