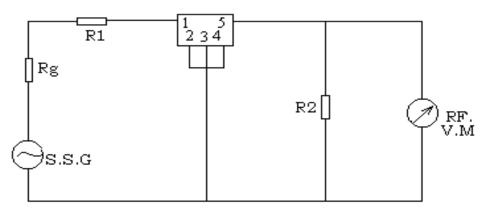


- 1. THIS SPECIFICATION SHALL COVER THE CHARACTERISTICS OF CERAMIC FIL TER WITH 455KHz,INTENED FOR USE IN TRANSCEIVERS,ETC.
- 2. PART NUMBER: LT455HTW

3. ELECTRONICAL SPECIFICATIONS

А. В.	CENTRE FREQUENCY(f。) BAND WIDTH AT 6 dB	: :	455 KHz±1.0KHz ±3.0 KHz MIN.(TO 455KHz)
C.	BAND WIDTH AT 50 dB	:	±9.0 KHz MAX.(TO 455KHz)
D.	STOP BAND ATTENUATION	:	60 dB MIN.(AT f . ±100KHz)
E.	RIPPLE	:	2.0 dB MAX.(AT $f_{\circ} \pm 5.0$ KHz)
F.	INSERTION LOSS	:	6.0 dB MAX.(AT THE SMALLEST LOSS)
G	TEMPRATURE COEFFICIENT		
	OF CENTER FRENQUENCY	:	±50PPM/°C Max.(-20 TO +80°C)
H.	INPUT/OUTPUT IMPEDANCE	:	2.0ΚΩ
NO	TE: A) CENTER FREQUENCY	' SH	ALL BE DEFIED AS THE CENTRAL

- VALUE OF THE BAND WTTH AL 6 dB
 - B) TEMPRATURE COEFFICIENT OF CENTER FREQUENCY SHALL BE DEFINED AS THE AVERAGE OF THE CENTRAL FREQUECY.
- 4. MEASUREMENT
 - A. ENVIRONMENTAL CONDITION MEASUREMENT SHALL BE CARRIED OUT AT THE REFERENCE TEMPERATURE OF 25 $^{\circ}$ C ±2 $^{\circ}$ C. IT SHALL BE POSSIBLY DONE AT 5 $^{\circ}$ C TO 35 $^{\circ}$ C CUNLESS IT IS QUESTIONABLE.
 - B. MEASURING CIRCUIT



Rg+R1=R2=Input/output Impedance

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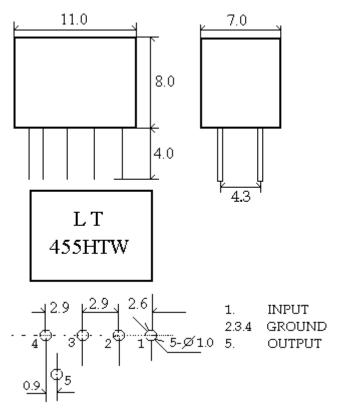
[#] S.S.G. (STANDARD SIGNAL GENERATION)





R.F.V.M. (RADIO FREQUENCY VOLTAGE METER) Rg+R1=R2=2.0K Ω C < =50PF

5. DIMENSIONS(mm)



- 6. ENVIRONMENTAL CHARACTERISTICS
 - 6-1 HIGH TEMPERATURE EXPOSURE SUBJECT THE FITTER TO +80℃ FOR 96 HOURS. THEN RELEASE THE FILTER INTO THE SPECIFICATIONS IN TABLE 1.
 - 6-2 MOISURE
 KEEP THE FILTER AT 40°C AND 95% RHFOR 96 HOURS. THEN
 RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 1 TO
 2 HOURS PRIOR TO THE MEASUREMENT. IT SHALL FULFILL THE
 SPECIFICATIONS IN TABLE 1.
 - 6-3 LOW TEMPERATURE EXPOSURE SUBJECT THE FILTER TO -20℃ FOR 96 HOURS. THEN RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 1 TO 2 HOURS PRIOR TO THE MEASUREMENT. IT SHALL FULFILL THE SPECIFIC ATIONS IN TABLE 1.

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- 6-4 TEMPERATURE CYCLING SUBJECT THE FILTER TO ALOW TEMPERATURE OF -55°C FOR 30 MINUTES. FOLLOWSING BY A HIGH TEMPERATURE OF +85°C FOR 30 MINUTES. THEN RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 1 TO 2 HOURS PRIOR TO THE MESUREMENT. IT SHALL MEET THE SPECIFICATIONS IN TABLE 1.
- 6-5 RESISTANCE TO SOLDER HEAT DIP THE FILTER TERMINALS NO CLOSER THAN 1.5mm INTO THE SOLDER BATH AT 270°C ±10°C FOR 10±1 SEC. THEN RELEASE THE FILTER IN TO THE ROOM CONDITIONS FOR 1 TO 2 HOURS. THE FILTER SHALL MEET THE SPECIFICATIONS IN TABLE 1.
- 6-6 MECHANICAL SHOCK DROP THE FIL TER RANDOMLY ONTO THE CONCRETE FLOOR FROM THE HEIGHT OF 30cm 3 TIMES.THE FILTER SHALL FULFILL THE SPECIFICATIONS IN TABLE 1.
- 6-7 VIBRATION SUBJECT THE FILTER TO THE VIBRATION FOR 1 HOUR EACH IN X,Y AND Z AXES WITH THE AMPLITUDE OF 1.5mm AT 10 TO 55Hz. THE FILTER SHALL FULFILLTHE SPECIFICATIONS IN TABLE 1.

6-8 LEAD FATIGUE

6-8-1 PULLING TEST

WEIGHT ALONG WITH THE DIRECTION OF LEAD WITHOUT AN SHOCK 3 KG. THE FILTER SHALL SATISFY ALL THE INITIALL CHARACTERISTICS.

6-8-2 BENDING TEST

LEAD SHALL BE SUBJECT TO WITHSTAND AGAINST 90°C BENDING IN THE DERECTION OF THICKNESS. THIS OPERATION SHALL BE DONE TOWARD BOTH DIRECTION. THE FIL TER SHALL SHOW NOEVIDENCE OF DAMAGE AND SHALL SATISFY ALL THE INITIAL ELECTRIC AL CHARACTERISTICS.

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ITEM	SPECIFICATION		
CENTRE FREQUENCY(f_{\circ})	455±1.0 KHz Max		
BAND WIDTH(6 dB)	±3.0 KHz Min		
SELECTIVITY(50 dB)	±9.0KHz Max		
STOP BAND ATTENUATION	60 dB Min		
RIPPLE	2.0 dB Max		
INSERTION LOSS	6.0 dB Max		

TABLE 1

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