

规格书编号

SPEC NO :

产品规格书

SPECIFICATION

CUSTOMER 客户: _____
PRODUCT 产品: _____ CERAMIC FILTER _____
MODEL NO 型号: _____ LTUC450D _____
PREPARED 编制: _____ LEO _____ CHECKED 审核: _____ YORK _____
APPROVED 批准: _____ LIUMING _____ DATE 日期: _____ 2013-6-20 _____

客户确认 CUSTOMER RECEIVED:		
审核 CHECKED	批准 APPROVED	日期 DATE

无锡市好达电子股份有限公司
Shoulder Electronics Limited

1. THIS SPECIFICATION SHALL COVER THE CHARACTERISTICS OF CERAMIC FILTER WITH 450KHz.

2. PART NUMBER **LTUC450D**

SPECIFICATION No.: QJ/A25•14•0512

3. ELECTRONICAL SPECIFICATIONS

- A. CENTRE FREQUENCY (f₀) : 450.0 KHz ± 1.0KHz.
- B. BAND WIDTH AT 6 dB : ± 10.0 MIN.(TO 450KHz)
- C. BAND WIDTH AT 40 dB : ± 20.0 KHz MAX.(TO 450KHz)
- D. STOP BAND ATTENUATION : 28dB MIN.(AT f₀ ± 100KHz)
- E. RIPPLE : 2.0 dB MAX.
- F. INSERTION LOSS : 5.0 dB MAX (AT MINIMUM LOSS POINT)
- G. TEMPRATURE COEFFICIENT
OF CENTER FRENQUENCY : ± 50PPM/°C Max.(-20 TO +80°C)
- H. INPUT/OUTPUT IMPEDANCE : 1.5K Ω

NOTE : A) CENTER FREQUENCY SHALL BE DEFIED AS THE CENTRAL VALUE OF THE BAND WITH AT 6 dB

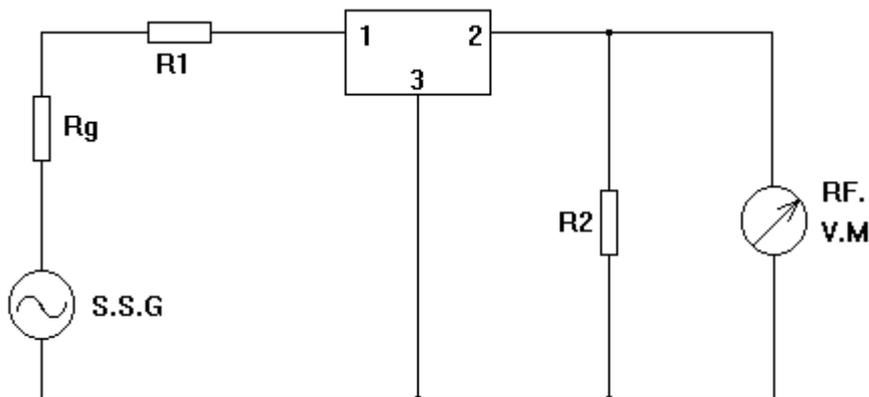
B) TEMPRATURE COEFFICIENT OF CENTER FREQUENCY SHALL BE DEFINED AS THE AVERAGE OF THE CENTRAL FREQUECY.

4. MEASUREMENT

A. ENVIRONMENTAL CONDITION

MEASUREMENT SHALL BE CARRIED OUT AT THE REFERENCE TEMPERATURE OF 25°C ± 2°C. IT SHALL BE POSSIBLY DONE AT 5°C TO 35°C UNLESS IT IS QUESTIONABLE.

B. MEASURING CIRCUIT



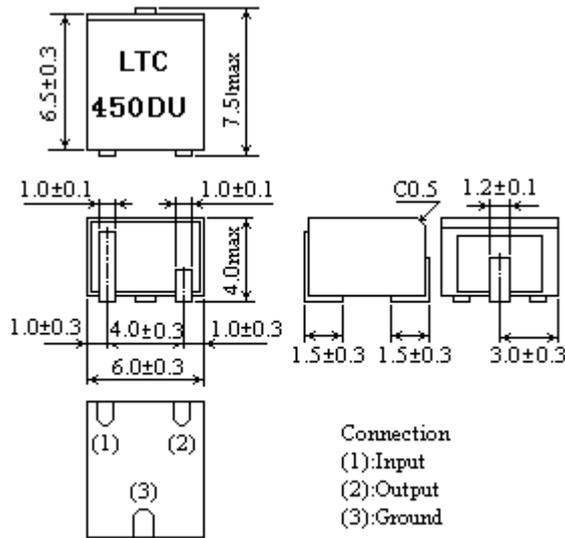
Rg+R1=R2=Input/Output Impedance

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

R.F.V.M. (RADIO FREQUENCY VOLTAGE METER)

Rg+R1=R2=1.5 K Ω

C<=50 PF

5. DIMENSIONS(mm)

6. ENVIRONMENTAL CHARACTERISTICS
6-1 HIGH TEMPERATURE EXPOSURE

SUBJECT THE FILTER TO $+80^{\circ}\text{C}$ FOR 96 HOURS. THEN RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 2 HOURS PRIOR TO THE MEASUREMENT. IT SHALL FULFILL THE SPECIFICATIONS IN TABLE 1.

6-2 MOISTURE

KEEP THE FILTER AT 40°C AND 95% RH FOR 96 HOURS. THEN RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 2 HOURS PRIOR TO THE MEASUREMENT. IT SHALL FULFILL THE SPECIFICATIONS IN TABLE 1.

6-3 LOW TEMPERATURE EXPOSURE

SUBJECT THE FILTER TO -20°C FOR 96 HOURS. THEN RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 2 HOURS PRIOR TO THE MEASUREMENT. IT SHALL FULFILL THE SPECIFICATIONS IN TABLE 1.

6-4 TEMPERATURE CYCLING

SUBJECT THE FILTER TO A LOW TEMPERATURE OF -20°C FOR 30 MINUTES. FOLLOWING BY A HIGH TEMPERATURE OF $+85^{\circ}\text{C}$ FOR 30 MINUTES. THEN RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 2 HOURS PRIOR TO THE MEASUREMENT. 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 $260^{\circ}\text{C} \pm 10^{\circ}\text{C}$ FOR 10 ± 1 SEC. THEN

RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 2 HOURS. THE FILTER SHALL MEET THE SPECIFICATIONS IN TABLE 1.

6-6 MECHANICAL SHOCK

DROP THE FILTER 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 AXLES WITH THE AMPLITUDE OF 1.5 mm AT 10 TO 55 Hz. THE FILTER SHALL FULFILL THE SPECIFICATIONS IN TABLE 1.

6-8 LEAD FATIGUE

6-8-1 PULLING TEST

WEIGHT ALONG WITH THE DIRECTION OF LEAD WITHOUT AN SHOCK 1.5 KG. THE FILTER SHALL SATISFY ALL THE INITIAL CHARACTERISTICS.

6-8-2 BENDING TEST

LEAD SHALL BE SUBJECT TO WITHSTAND AGAINST 90° BENDING IN THE DERECTION OF THICKNESS. THIS OPERATION SHALL BE DONE TOWARD BOTH DIRECTION. THE FILTER SHALL SHOW NO EVIDENCE OF DAMAGE AND SHALL SATISFY ALL THE INITIAL ELECTRICAL CHARACTERISTICS.

TABLE 1

ITEM	SPECIFICATION
CENTRE FREQUENCY(f。)	450.0 ± 1.0 KHz
BAND WIDTH(6 dB)	± 10KHz Min
SELECTIVITY(40dB)	± 20 KHz Max
STOP BAND ATTENUATION	28dB Min
RIPPLE	2.0 dB Max
INSERTION LOSS	5.0dB Max