

规格书编号

SPEC NO: HD20120522-01

产品规格书 SPECIFICATION

CUSTOMER 客户:_							
PRODUCT 产品:_	CERAMIC FILTER						
MODEL NO 型 号:_	LTUC455F						
PREPARED 编 制: _	LEO CHECKED 审 核: YORK		笈:YORK				
APPROVED 批 准:	LIUMING DATE目:		月: 2012-5-22				
客户确认 CUSTOMER RECEIVED:							
审核 CHECKED	批准	È APPROVED	日期 DATE				

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



更改历史记录 History Record

更改日期 Date	规格书编号 Spec No	产品型号 Part No	客户产品型号 Customer No	更改内容描述 Modify Content	备注 Remark



CERAMIC FILTER LTUC455F

THIS SPECIFICATION SHALL COVER THE CHARACTERISTICS OF CERAMIC FILTER 1. WITH 455KHz.

2. PART NUMBER LTUC455F

SPECIFICATION No.: QJ/A25•02•0512

ELECTRONICAL SPECIFICATIONS

A. CENTRE FREQUENCY (f_o) : 455.0 KHz±1.0KHz.

B. BAND WIDTH AT 6 dB ± 6 KHz MIN.(TO 455KHz) : C. BAND WIDTH AT 40 dB \pm 12.5 KHz MAX.(TO 455KHz) D. STOP BAND ATTENUATION: 28dB MIN.(AT $f_{\circ} \pm 100$ KHz)

E. RIPPLE : 2.0 dB MAX.

F. INSERTION LOSS 5.0 dB MAX (AT MINIMUM LOSS POINT)

G. TEMPRATURE COEFFICIENT

OF CENTER FRENQUENCY : ± 50 PPM/°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

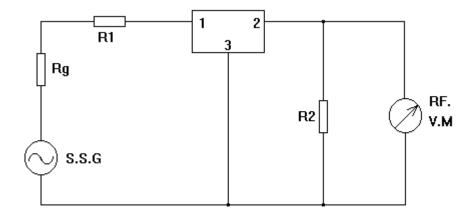
B) TEMPRATURE COEFFICIENT OF CENTER FREQUENCY SHALL BE DEFINED AS THE AVERAGE OF THE CENTRAL FREQUECY.

4. MEASUREMENT

A. ENVIRONMENTAL CONDITION

MEASUREMENT SHALL BE CARRIED OUT AT THE REFERENCE TEMPERATURE OF ±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)

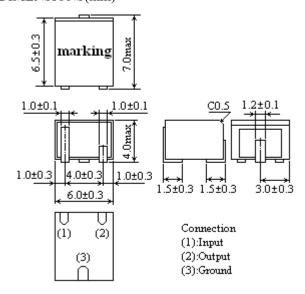
 $Rg+R1=R2=1.5K \Omega$

C<=50 PF



CERAMIC FILTER

5. DIMENSIONS(mm)



6. ENVIRONMENTAL CHARACTERISTICS

6-1 HIGH TEMPERATURE EXPOSURE

SUBJECT THE FILTER TO +80°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 $40\,^{\circ}$ 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

6-4 TEMPERATURE CYCLING

IN TABLE 1.

SUBJECT THE FILTER TO A LOW TEMPERATURE OF -20°C FOR 30 MINUTES. FOLLOWSING BY A HIGH TEMPERATURE OF +85°C FOR 30 MINUTES. THEN RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 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 $260\,^{\circ}$ C $\pm 10\,^{\circ}$ C FOR $10\,\pm 1$ 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



CERAMIC FILTER

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。)	$455.0 \pm 1.0 \text{ KHz}$		
BAND WIDTH(6 dB)	±6KHz Min		
SELECTIVITY(40dB)	±12.5 KHz Max		
STOP BAND ATTENUATION	28dB Min		
RIPPLE	2.0 dB Max		
INSERTION LOSS	5.0dB Max		