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：LTWC450E

PREPARED 编 制：fengyu CHECKED 审 核：york

APPROVED 批 准：lijiating D A T E 日 期：2008-6-28

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

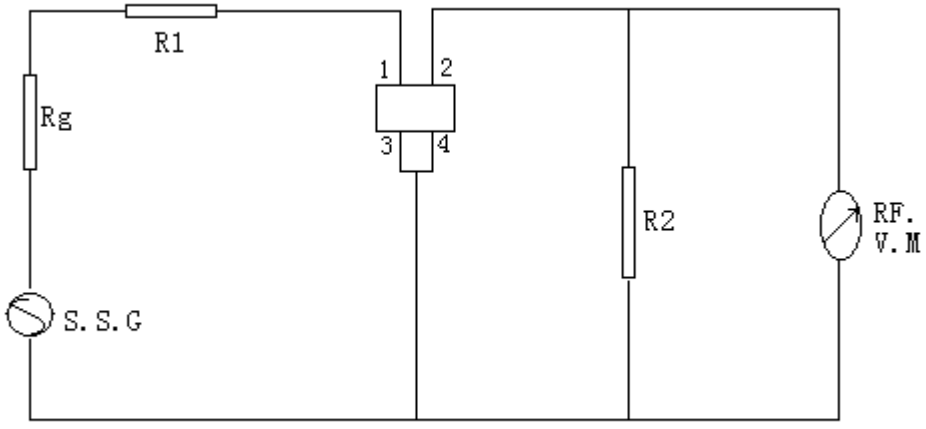
无锡市好达电子有限公司

Shoulder Electronics 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

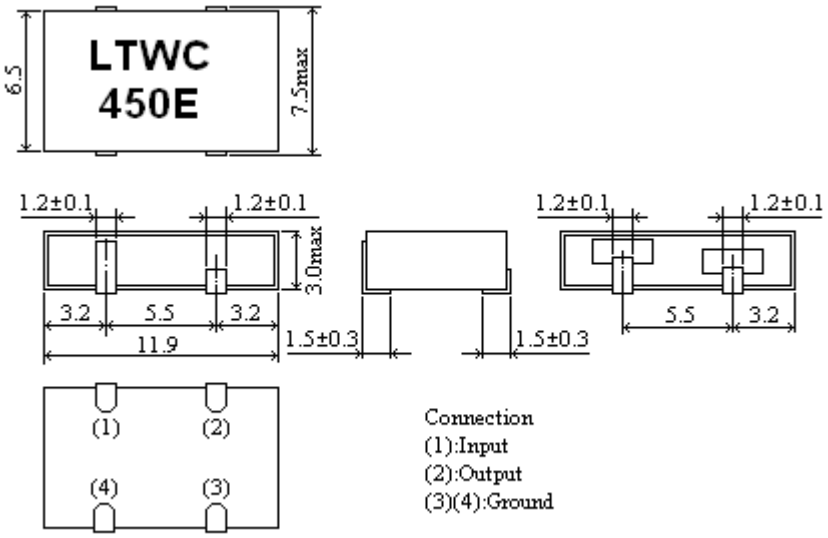
1. THIS SPECIFICATION SHALL COVER THE CHARACTERISTICS OF SMD TYPE CERAMIC FILTER WITH 450KHz ,INTENED FOR USE IN TRANSCEIVERS,ETC.
2. PART NUMBER:**LTWC450E**
3. ELECTRONICAL SPECIFICATIONS
   A. CENTRE FREQUENCY(f。) : 450KHz±1.0KHz.Max.
   B. BAND WIDTH AT 3dB : ±6.5KHzMin(TO 450KHz)
   C. BAND WIDTH AT 50dB : ±15KHzMin(TO 450KHz)
   D. STOP BAND ATTENUATION : 55dBMin(AT f_0 ± 18 to ± 33KHz)
   E. STOP BAND ATTENUATION : 50dBMin.(AT f。±100KHz)
   F: STOP BAND ATTENUATION : 20dBMin(AT f_0 ±0.1 to ±1 MHz)
   G: RIPPLE : 3.0dBMax.(AT f。±6.5KHz)
   H: INSERTION LOSS : 4.0dBMax.(AT THE SMALLEST LOSS)
   I: TEMPRATURE COEFFICIENT
   OF CENTER FRENQUENCY : ±5 PM/℃MAX.(-20 TO +80 ℃)
   J: INPUT/OUPUT IMPEDANCE : 1.5KΩ
   NOTE : A) CENTER FREQUENCY SHALL BE DEFIED AS THE CENTRAL VALUE OF THE BAND WITH AT 6dB
   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℃±2℃. IT SHALL BE POSSIBLY DONE AT 5℃TO 35℃ UNLESS IT IS QUESTIONABLE.
   B. MEASURING CIRCUIT



Rg+R1=R2=Input/ouput Impedance

#S.S.G (STANDARD SIGNAL GENEATION)
R.F.V.M. (RADIO FREQUENCY VOLTAGE METER)
Rg+R1=R2= 1.5KΩ
C<=50 PF

5.DIMENSIONS(mm)



6.ENVIRONMENTAL CHARACTERISTICS

6-1 HIGH TEMPERATURE EXPOSURE

SUBJECT THE FILTER TO +80℃ FOR 96 HOURS. THEN RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 1 TO 2 HHOURS PRIOR TO THE MEASUREMENT. IT SHALL FULFILL THE SPECIFICATIONS IN TABLE 1.

6-2 MOISURE

KEEP THE FILTER AT 40℃ AND 95%RH FOR 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

TABLES 1.

6-3 LOW TEMPERATURE EXPOSURE

SUBJECTTHE 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 SPECIFICATIONS IN TABLE 1.

6-4 TEMPERATURE CYCLING

SUBJECT THE FILTER TO A LOW TEMPERATURE OF -55℃ FOR30 MINUTES.FOLLOWSING BY A HIGH TEMPERATURE OF +85℃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℃±10℃ FOR 10±1 SEC.THEN RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 1 TO 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 FUFILL THE SPECIFICATIONS IN TABLE 1.

6-7 VIBATION

SUBJECT THE FILTER TO THE VIBRATION FOR 1 HOUR EACH IN X,Y AND ZAXES WITH THE AMPLITUDE OF 1.5mm 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 3 KG.THE FILTER SHALL SATISFY ALL THE INITIALL CHARACTRISTICS.

6-8-2 BENDING TEST

LEAD SHALLBE 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	SPECIFICTION
CENTRE FREQUENCY(f。)	450±1.0KhzMax
BAND WIDTH(6dB)	±6.5KHzMin
SELECTIVITY(50dB)	±15KhzMax
STOP BAND ATTENUATION	55dBMin(f_0± 18 to ±33 Khz)
STOP BAND ATTENUATION	50dBMin(f_0±100 Khz)
STOP BAND ATTENUATION	20dBMin(f_0± 0.1 to ±1 Mhz)
RIPPLE	3.0dBMax
INSERTION LOSS	4.0dBMax