B SHOULDER

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:	LT455EW			
PREPARED 编 制:	guoyongke	_CHECKED 审核:	liuming	
APPROVED 批 准:	wangjianwen	DATE日期:	2009-10-19	

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

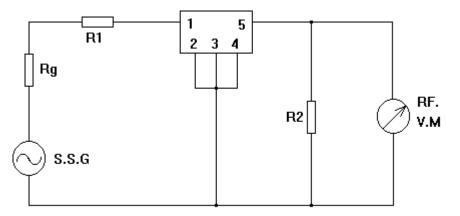


更改历史记录 History Record

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

CERAMIC FILTER

- 1. THIS SPECIFICATION SHALL COVER THE CHARACTERISTICS OF CERAMIC FILTER WITH 455KHz,INTENED FOR USE IN TRANSCEIVERS,ETC.
- 2. PART NUMBER : LT455EW
- 3. ELECTRONICAL SPECIFICATIONS
 - A. CENTRE FREQUENCY (f_{\circ}) : 455KHz ± 1.5KHz. MAX. B. BAND WIDTH AT 6 dB : \pm 7.5 KHz MIN.(TO 455KHz) C. BAND WIDTH AT 50 dB : ± 15.0 KHz MAX.(TO 455KHz) D. STOP BAND ATTENUATION : $45 \text{ dB MIN.}(\text{AT f}_{\circ} \pm 100 \text{KHz})$ E. RIPPLE : 2.0dB MAX.(AT f_{\circ} ±5.0KHz) F. INSERTION LOSS : 6.0 dB MAX (AT THE SMALLEST LOSS) G. TEMPRATURE COEFFICIENT ±50PPM/°C Max.(-20 TO +80°C) OF CENTER FRENQUENCY : H. INPUT/OUTPUT IMPEDANCE : $1.5 \text{ K}\Omega$ 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 $25 \degree C \pm 2\degree C$. IT SHALL BE POSSIBLY DONE AT 5 $\degree C$ TO 35 $\degree C$ UNLESS IT IS QUESTIONABLE.
 - B. MEASURING CIRCUIT



Rg+R1=R2=Input/Output Impedance

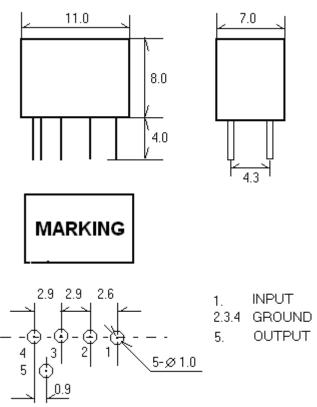
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#S.S.G. (STANDARD SIGNAL GENERATION)
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R.F.V.M. (RADIO FREQUENCY VOLTAGE METER)

Rg+R1=R2=1.5K Ω

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 F ILTER INTO THE SPECIFICATIONS IN TABLE 1.
 - 6-2 MOISURE

KEEP THE FILTER AT 40°C 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 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 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℃ FOR 30 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

CERAMIC FILTER

DIP THE FILTER TERMINALS NO CLOSER THAN 1.5mm INTO THE SOLDER BATH AT 270°C $\pm 10°$ C 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 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 1.5 mm AT 10 TO 55 Hz. 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 FILTER SHALL SHOW NO EVIDENCE OF DAMAGE AND SHALL SATISFY ALL THE INITIAL ELECTRICAL CHARACTERISTICS.

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ITEM	SPECIFICATION	
CENTRE FREQUENCY(f_{\circ})	455±1.5 KHz Max	
BAND WIDTH(6 dB)	±7.5 KHz Min	
SELECTIVITY(50dB)	±15 KHz Max	
STOP BAND ATTENUATION	45 dB Min	
RIPPLE	2.0 dB Max	
INSERTION LOSS	6 dB Max	

TABLE 1