

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: SFU455B
PREPARED 编制: LEO CHECKED 审核: YORK
APPROVED 批准: LIUMING DATE 日期: 2012-7-16

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

1. SCOPE

THIS SPECIFICATION SHALL COVER THE CHARACTERISTICS OF THE CERAMIC FILTER WITH 460kHz.

2. SPECIFICATION NO. : QJ/A4•06•0403

3. PART NO. : SFU455B

4. ELECTRICAL SPECIFICATIONS

4.1 CENTRE FREQUENCY (F₀) : 460 ± 2 KHz

4.2 BAND WIDTH AT (3 dB) : 10 ± 3 KHz

4.3 SELECTIVITY (F₀ - 9KHz) : 6 dB min.
(F₀ + 9KHz) : 5 dB min.

4.4 STOP BAND ATTENUATION : 10 dB min.

4.5 RIPPLE : 0 dB

4.6 INSERTION LOSS : 5 dB max

4.7 TEMPERATURE COEFFICIENT

OF CENTER FRENQUENCY : ± 1.5KHz max.(-20 TO +80°C)

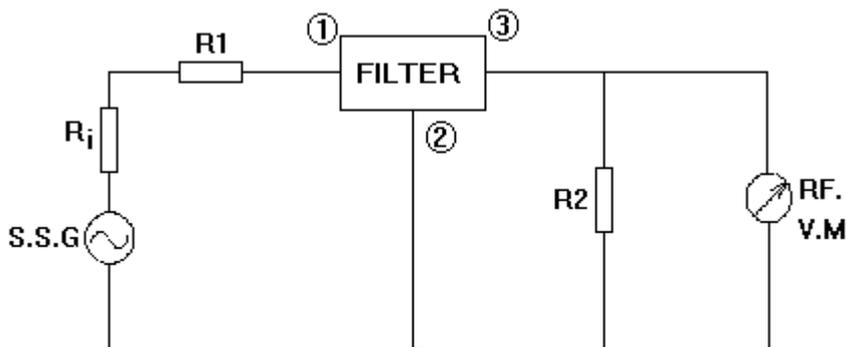
4.8 INPUT/OUTPUT IMPEDANCE : 3 K Ω

NOTE : 1) CENTER FREQUENCY SHALL BE DEFIED AS THE CENTRAL VALUE OF THE BAND WITH AT 3 dB

2) TEMPRATURE COEFFICIENT OF CENTER FREQUENCY SHALL BE DEFINED AS THE AVERAGE OF THE CENTRAL FREQUECY SHIFT THROUGHOUT THE SPECIFIED TEMPERATURE RANGE.

5 MEASUREMENT
5.1 ENVIRONMENTAL CONDITION

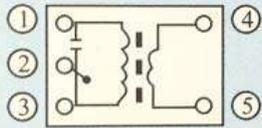
MEASUREMENT SHALL BE CARRIED OUT AT THE REFERENCE TEMPERATURE OF 25°C ± 2°C. IT SHALL BE POSSIBLY DONE AT 5°C TO 35°C UNLESS IT IS QUESTIONABLE.

5.2 MEASUREMENT CIRCUIT


$$R_i + R_1 = R_2 = 3K \Omega$$

① Input ② Ground ③ Output

• Recommended IFT (7mm Square)

Item \ Type	SFU455B		
Winding Specification	① - ②	② - ③	④ - ⑤
 <p>From bottom</p>	70T	115T	7T
Unloaded Qu	105		
Tuning Capacity	180PF		

6. ENVIRONMENTAL CHARACTERISTICS

6-1 MOISTURE

KEEP THE FILTER AT $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ AND 90 ~ 95% RH FOR 96 ± 4 HOURS. THEN, RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 2 HOUR PRIOR TO THE MEASUREMENT. IT SHALL FULFILL THE SPECIFICATIONS IN TABLE 1.

6-2 VIBRATION

SUBJECT THE FILTER TO THE VIBRATION FOR 1 HOUR EACH IN THE X,Y AND Z AXES WITH THE AMPLITUDE OF 1.5 mm AT 10 ~ 55 Hz. IT SHALL FULFILL THE SPECIFICATIONS IN TABLE 1.

6-3 MECHANICAL SHOCK

DROP THE FILTER RANDOMLY ONTO A CONCRETE FLOOR FROM THE HEIGHT OF 30cm 3 TIMES. IT SHALL FULFILL THE SPECIFICATIONS IN TABLE 1.

6-4 RESISTANCE TO SOLDER HEAT

DIP THE FILTER TERMINALS NO CLOSER THAN 1.5mm INTO THE SOLDER BATH AT $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ FOR 5 ± 1 SEC. THE FILTER SHALL MEET THE SPECIFICATIONS IN TABLE 1.

6-5 SOLDERABILITY

DIP THE FILTER TERMINALS NO CLOSER THAN 1.5mm INTO THE SOLDER BATH AT $245^{\circ}\text{C} \pm 5^{\circ}\text{C}$ FOR 3 ± 0.5 SEC. MORE THAN 90% OF THE TERMINAL SURFACE OF THE FILTER SHALL BE COVERD WITH FRESH SOLDER.

6-6 HIGH TEMPERATURE STORAGE

SUBJECT THE FILTER TO $+80 \pm 5^{\circ}\text{C}$ FOR 96 ± 4 HOURS. THEN, RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 2 HOUR PRIOR TO THE MEASUREMENT. IT SHALL MEET THE SPECIFICATIONS IN TABLE 1.

6-7 LOW TEMPERATURE STORAGE

SUBJECT THE FILTER TO $-20 \pm 5^{\circ}\text{C}$ FOR 96 ± 4 HOURS. THEN, RELEASE THE FILTER INTO THE ROOM CONDITIONS FOR 2 HOUR PRIOR TO THE

MEASUREMENT. IT SHALL MEET THE SPECIFICATIONS IN TABLE 1.

6-8 TEMPERATURE CYCLING

SUBJECT THE FILTER TO A LOW TEMPERATURE OF -20°C FOR 30 MINUTES. FOLLOWED BY A HIGH TEMPERATURE OF +80°C FOR 30 MINUTES. CYCLING SHALL BE REPEATED 5 TIMES WITH A TRANSFER TIME 15 MINUTES AT THE ROOM CONDITIONS. THEN, RELEASE THE FILTER INTO THE ROOM TEMPERATURES FOR 2 HOUR PRIOR TO THE MEASUREMENT. IT SHALL MEET THE SPECIFICATIONS IN TABLE 1.

6-9-1 PULLING TEST

WEIGHT ALONG WITH THE DIRECTION OF LEAD WITHOUT AN SHOCK 1 KG. THE FILTER SHALL SHOW NO EVIDENCE OF DAMAGE AND SHALL SATISFY ALL THE INITIAL ELECTRIC CHARACTERISTICS.

6-9-2 BENDING TEST

LEAD SHALL BE SUBJECTED TO WITHSTAND AGAINST 90° BENDING IN THE DIRECTION 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

7. DIMENSIONS(mm)

