产 品 规 格 书
Product Specification

CUSTOMER	客户:	
CUSTOMER PN	客户 PN:	
HANG CRYSTAL P/N	杭晶物料编码:	**HCCF2-455.000-LTCAUL**
MODEL	产品型号:	**Ceramic Filter 6.5x6.0x4.0**
NOMINAL FREQUENCY	频率:	**455.000kHz**
ISSUE DATE	日期:	**2019/03/ 21**

CUSTOMER'S APPROVAL
客户确认

(PLEASE RETURN A COPY WITH APPOVAL)
（请将确认的复印件返回我司）

APPROVED	QA
MB.	James J

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Revision	Description / ECN	Prepared	Approved	Date
A	Initial release	MB.	James Jiang	2019-03-21

1. ELECTRICAL SPECIFICATIONS

No	Item	Spec.
1	Center Frequency	455kHz±2.0kHz
2	Pass Band Width at 6dB	≥ ±17.5kHz
3	Pass Band Width at 40dB	≤ ±40.0kHz
4	Insertion Loss(@Mini Loss Point)	≤ 5.0dB
5	Ripple(fo±5.5KHz)	≤ 2.0dB
6	Stop Band Attenuation	≥ 25dBc (f0±100KHz)
7	Input/Output Impedance	1.5KΩ
8	Frequency stability	≤ ±50ppm @ -20 to +80℃
9	Operating Temperature Range	-20℃~+80℃
10	Storage Temperature Range	-40℃~+85℃
11	Size(mm)	6.5x6.0x4.0

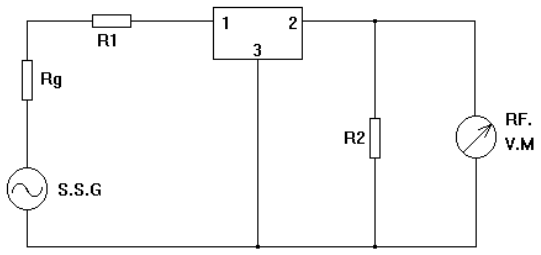
NOTE : A) Center frequency shall be defied as the central value of the band with at 6 dB
B) Frequency stability is the frequency deviation over -20 to +80℃ TOP in reference to the frequency reading at +25°C...

2. Measurement

A. Environmental Condition

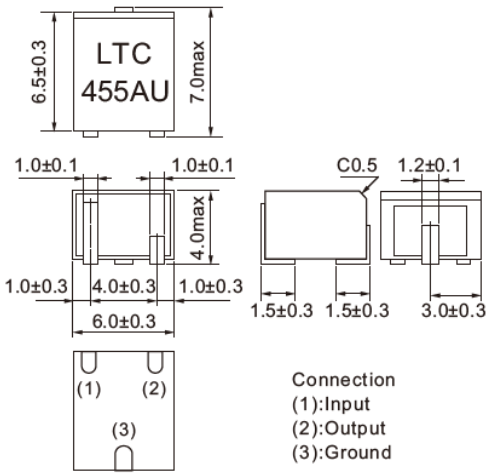
Measurement shall be carried out at the reference temperature of 25℃±2℃. It shall be possibly done at 5℃ to 35℃ unless it is questionable.

B. Measuring Circuit



Rg+R1=R2=Input/Output Impedance

3. DIMENSIONS (Unit: mm)



5.RELIABILITY TEST INFORMATION

	Test item	Test conditions
1	Tensile Strength Termination	Lead shall be subject 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 characteristics.
2	Vibration	Endurance condition by a frequency sweep shall be made. the entire frequency range from 10HZ to 55HZ and return to 10HZ, shall be transversed in 1 min. Amplitude (total excursion): 1.5mm This motion shall be applied for a period of 1h each of 3 mutually perpendicular axe (a total of 1h)
3	Drop	From 300mm height 3 times on 30mm hard wooden floor
4	Damp heat, constant	The unit shall be stored at a temperature of 40℃±2℃ with relative humidity of 90% to 95% for 96 hours, then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made.
5	Cold	The unit shall be stored at a temperature of -20±3℃ for 96h, then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made.
6	Dry heat	The unit shall be stored at a temperature of 80±3℃ for 96h, then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made.
7	Temperature Cycling	The unit shall be subjected to 3 successive change of temperature cycles, each as shown in table below, then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made
8	Resistance to soldering heat	Reflow at Preheat to 150°C±5°C for 60 to 120sec and peak 260°C±5°C for 10s±3sec, Tested after 24±2h at room temp.

	Temperature	Duration
1	-20℃±3℃	30min
2	standard atmospheric conditions	Within 30S
3	80℃±3℃	30min
4	standard atmospheric conditions	Within 30S

Item	Specification
Center frequency(f。)	455±2.0 kHz
band width (6 dB)	±17.5kHz min
selectivity(40db)	±40.0 kHz max
insertion loss	5.0 dB max