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:	**HCCF1-455.000-LTHTWL**
MODEL	产品型号:	**Ceramic Filter 11.0x8.0x7.0**
NOMINAL FREQUENCY	频率:	**455.000kHz**
ISSUE DATE	日期:	**2025/01/ 19**

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

SUZHOU HANGJING ELEC&TECH CO.,LTD
苏州杭晶电子科技有限公司
No. 207, Blk. B, Chenlei Science & Technology Park, No. 1, First Qunxing Road, Suzhou Industrial Park, Jiangsu, China
TEL.86 (0)512 65916689
FAX 86 (0)512 65918005

Revision	Description / ECN	Prepared	Approved	Date
A	Initial release	MB.	James Jiang	2019-08-23
B	Update 3.0 DIMENSIONS	MB.	James Jiang	2026-01-19

1. ELECTRICAL SPECIFICATIONS

No	Item	Spec.
1	Center Frequency	455kHz±1.0kHz
2	Pass Band Width at 6dB	≥ ±3.0kHz
3	Pass Band Width at 50dB	≤ ±9.0kHz
4	Insertion Loss	≤ 5.0dB
5	Ripple	≤ 2.0dB
6	Stop Band Attenuation	≥ 55dBc
7	Input/Output Impedance	2.0KΩ
8	Freq temp. Coefficient	≤ ±50ppm/℃ @ -20 to +80℃
9	Operating Temperature Range	-20℃~+80℃
10	Storage Temperature Range	-40℃~+85℃
11	Size(mm)	11.0x8.0x7.0

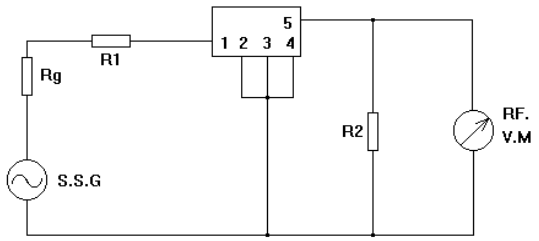
NOTE：A）Center frequency shall be defied as the central value of the band with at 6 dB
B）Temperature coefficient of center frequency shall be defined as the average of the central frequency.

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.

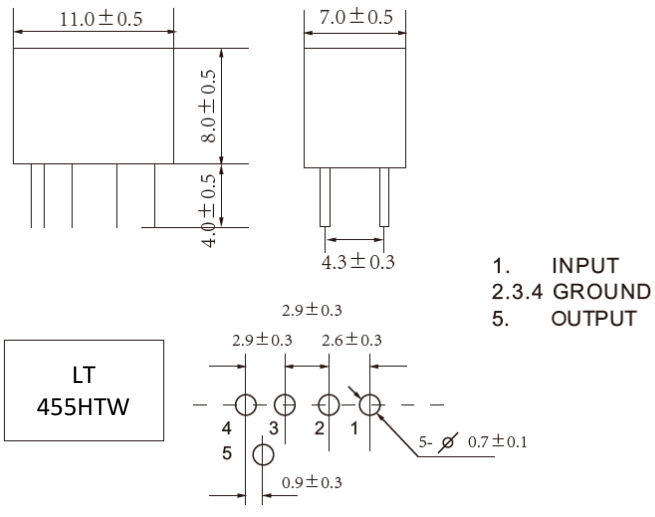
B. Measuring Circuit



Rg+R1=R2=Input/Output Impedance

#S.S.G. (STANDARD SIGNAL GENERATION)

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±1.0 kHz
band width (6 dB)	±3.0 kHz min
selectivity(50db)	±9.0 kHz max