



浙江汇隆晶片技术有限公司
Zhejiang Huilong Crystals Technology Co.,Ltd

SPECIFICATION FOR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

8.000000 MHz

HOLDER TYPE

HC-49US

SPEC. NO. (P/N)

HA08000F001

CUSTOMER P/N

ISSUE DATE

Feb.6,2023

APPROVED	PREPARED	QA
彭达梅	金文波	訾红华
APPROVED BY CUSTOMER:		AVL Status
Please return one copy with approval to HLC		

浙江省金华市经济开发区工业园区秋涛北街399号

No.399 Qiutao North Str.,Industrial Area,Economic

Development Zone,Jinhua,Zhejiang,China

TEL: 0086-579-82273331

FAX: 0086-579-82273198

<http://www.cn-hlc.com>



RoHS Compliant (Pb- Free)



TYPE HA SEAM SEALED X'TAL

ELECTRICAL SPECIFICATIONS

HLC Parts Number : HA08000F001

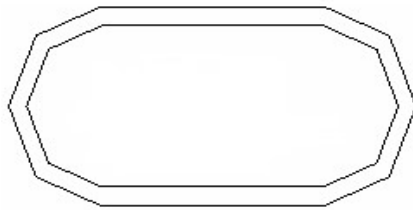
Item	Symbol	Specifications				Notes
		Min	Type	Max	Units	
Nominal frequency	FO	8.000000			MHz	
Mode of Oscillation	OT	Fundamental				
Load Capacitance	LC	20			pF	
Frequency Tolerance	FT	± 20			ppm	at 25°C $\pm 3^\circ\text{C}$
Frequency Stability		± 30			ppm	with working temperature Reference to 25°C frequency
Working temperature range	TR	-40~85			°C	
Drive Level	DL	100			μW	
Series Resonant Resistance RR	CI/RR	60			Ω	Max.
Shunt Capacitance C0	C0	7			pF	Max.
Aging		± 5			ppm/yr.	
Storage temperature range		-40 ~ 125			°C	

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TYPE HA SEAM SEALED X'TAL

MARKING



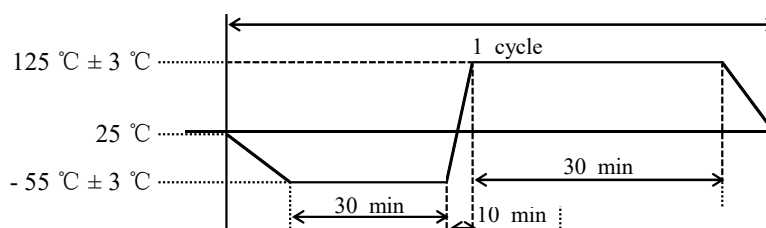
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TYPE HA SEAM SEALED X'TAL

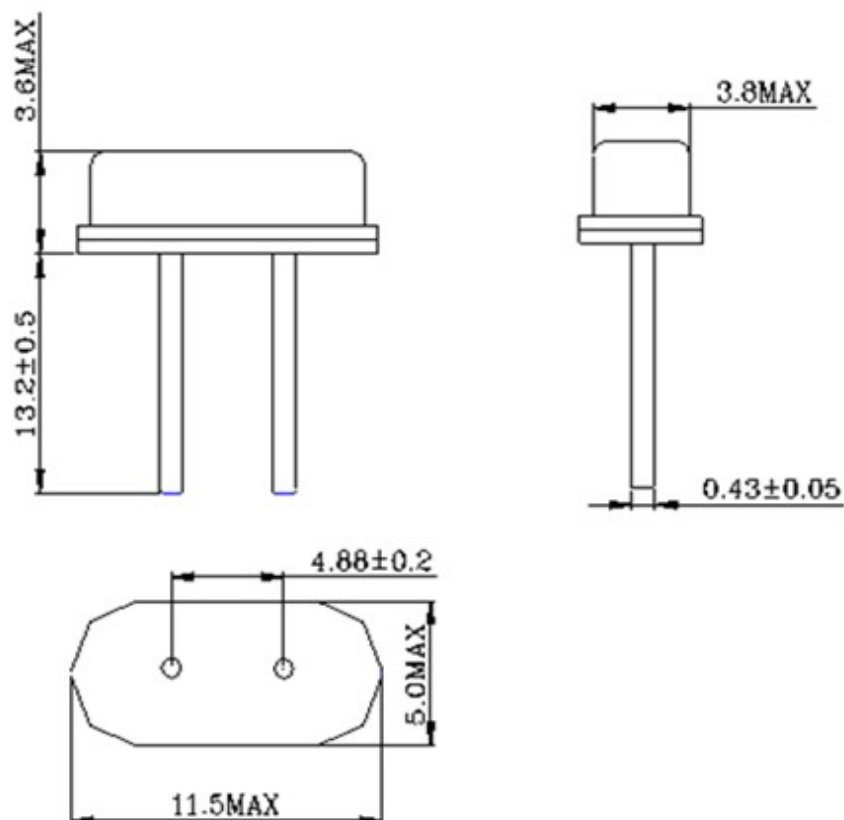
RELIABILITY SPECIFICATIONS

NO.	TEST ITEM	TEST METHODS
1	DROP TEST	Device are dropped from a height of 75 cm onto 3 mm thick wood to perform 3 times of random drops.
2	MECHANICAL SHOCK	Device are shocked to half sine wave (1000 G) three mutually perpendicular axes each 3 times.
3	VIBRATION	Frequency range 10 ~ 2000 Hz Amplitude 1.5 mm Sweep Time 20 minute Test Time 2 hours
4	SOLDERABILITY	MIL - STD - 20E Method 208C Temperature 245°C±5°C Material H63A (Silver 2 ~ 3 %) Immersion depth 0.5 mm minimum Immersion time 3 ± 0.5 seconds Flux Rosin resin methyl alcohol solvent (1 : 4)
5	RESISTANCE TO SOLDERING HEAT	MIL - SLD -202, Method 210, Condition I or J 10 sec immersion into 260 ± 5 °C solder pot, above 180°C is 90 ~ 120 sec.
6	LOW TEMP. STORAGE	Leave at - 55 °C ± 2°C for 1000 ± 12 hours
7	HIGH TEMP. STORAGE	Leave at 125 °C ± 2°C for 1000 ± 12 hours
8	THERMAL SHOCK	Total 100 cycles of the following temperature cycle

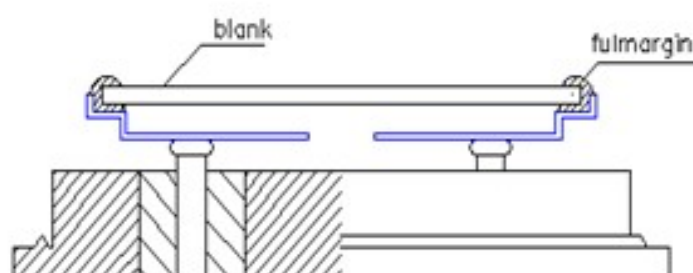


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DIMENSIONS



Inner structure

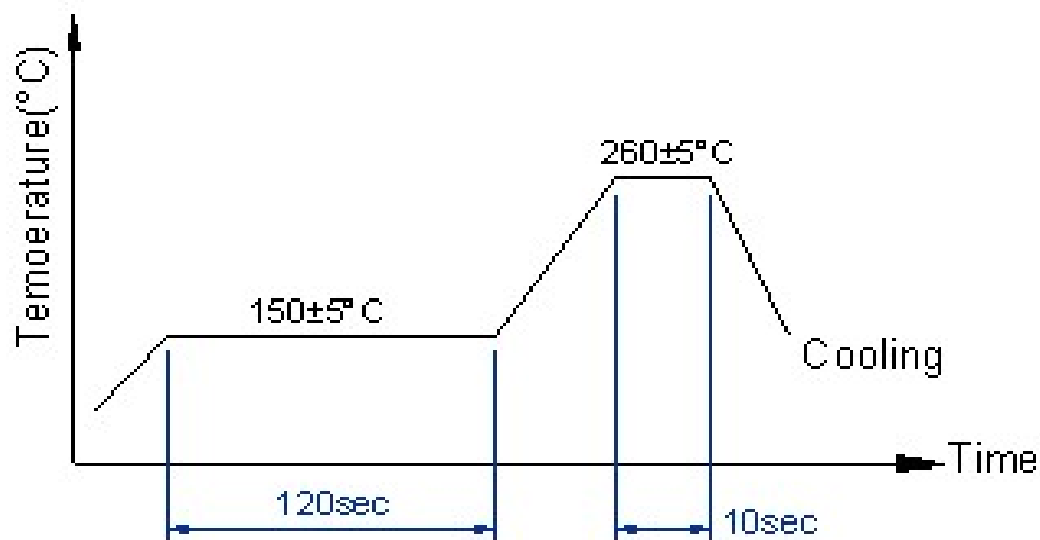


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TYPE HA SEAM SEALED X'TAL

SUGGESTED IR REFLOW PROFILE



Total Time: 200 Sec.Max

Solder melting point : 185°C

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PACKING



Packing quantity: 1000pcs per box and 10 000pcs per container .

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