



汇隆电子(金华)有限公司
HUILONG ELECTRONIC (JINHUA) CO.,LTD

SPECIFICATION FOR APPROVAL

CUSTOMER _____

NOMINAL FREQUENCY 32.000000 MHz

HOLDER TYPE HC-49US

SPEC. NO. (P/N) HA32000X004

CUSTOMER P/N _____

ISSUE DATE Feb.3,2021

APPROVED	PREPARED	QA
彭达梅	金文波	陈全根
APPROVED BY CUSTOMER :		AVL Status
Please return one copy with approval toHLC		

浙江省金华市经济开发区工业园区秋涛北街399
號

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



ISO9001
ISO14001



RoHS Compliant (Pb- Free)



TYPE HL SEAM SEALED X'TAL

ELECTRICAL SPECIFICATIONS

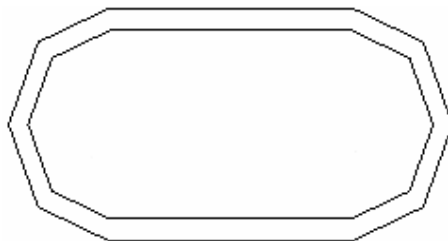
HLC Parts Number : HA32000X004

Item	Symbol	Specifications				Notes
		Min	Type	Max	Units	
Nominal frequency	FO	32.000000			MHz	
Mode of Oscillation	OT	Fundamental				
Load Capacitance	LC	10			pF	
Frequency Tolerance	FT	± 10			ppm	at 25°C $\pm 3^{\circ}\text{C}$
Frequency Stability		± 20			ppm	with working temperature Reference to 25°C
Working temperature range	TR	-10~70			°C	
Drive Level	DL	100			μW	
Series Resonant Resistance R _s	CI/RR	50			Ω	Max.
Shunt Capacitance C ₀	C ₀	7			pF	
Aging		3			ppm/yr.	
Storage temperature range		-40 ~ 85			°C	
Unit Weight					g	



TYPE HL SEAM SEALED X'TAL

MARKING

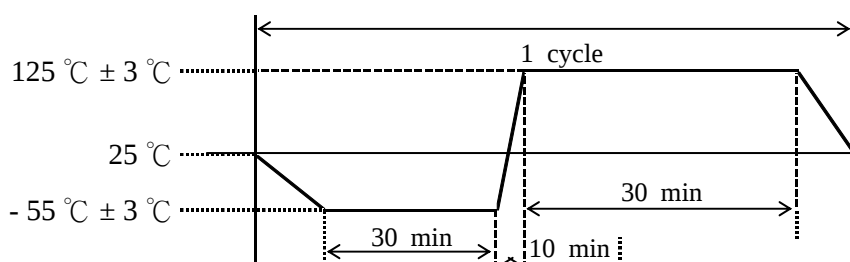




TYPE HL SEAM SEALED X'TAL

RELIABILITY SPECIFICATIONS

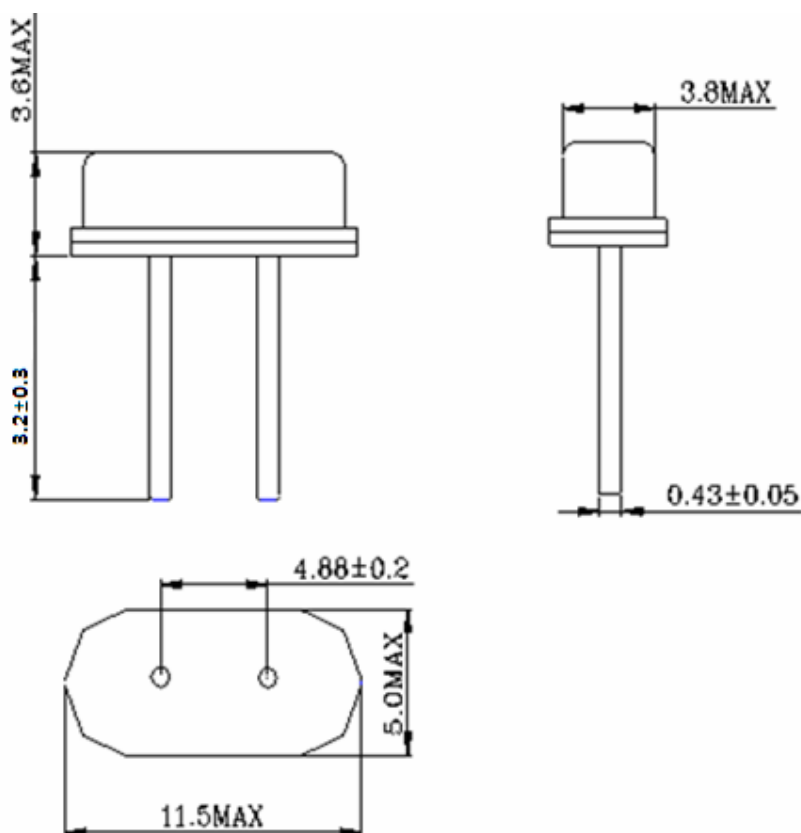
NO.	TEST ITEM	TEST METHODS
1	DROP TEST	Device are dropped from a height of 75 cm onto 3 mm thick wood to perform 3 times of random drops.
2	MECHANICAL SHOCK	Device are shocked to half sine wave (1000 G) three mutually perpendicular axes each 3 times.
3	VIBRATION	Frequency range 10 ~ 2000 Hz Amplitude 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



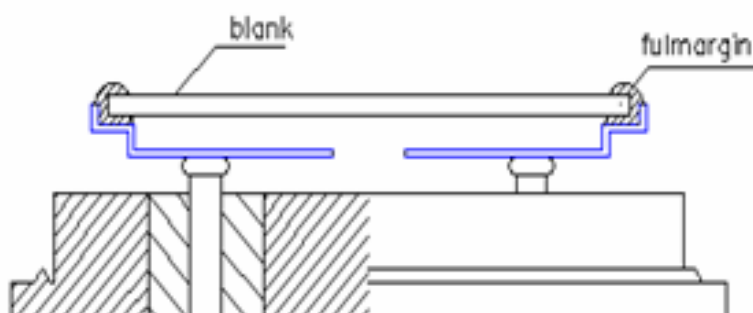


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DIMENSIONS



Inner structure



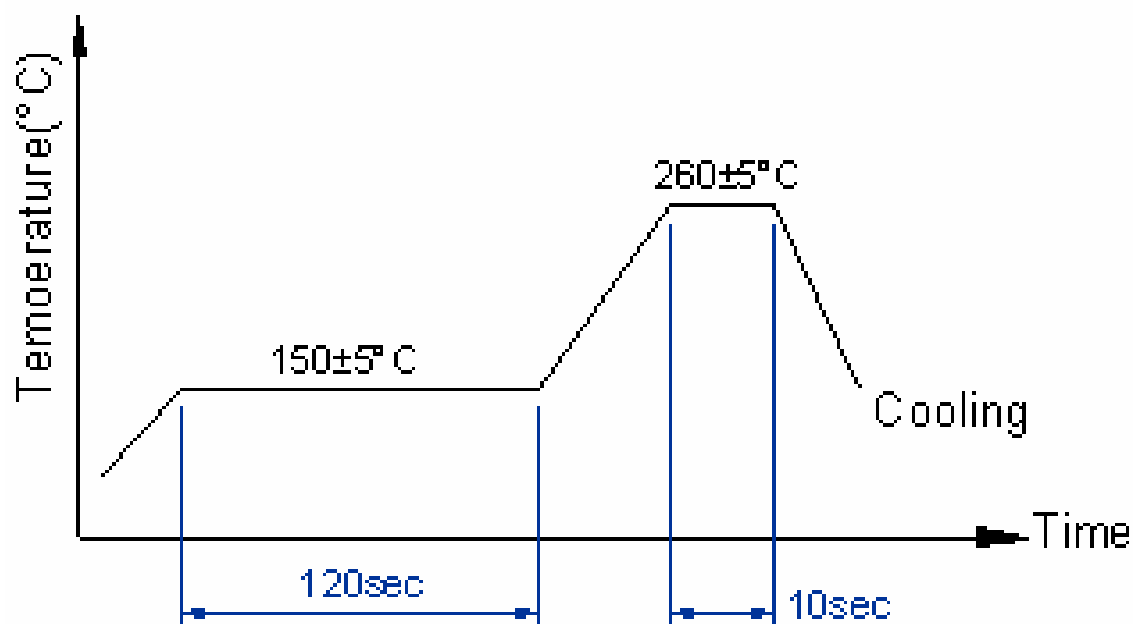
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H0-R-4-014



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SUGGESTED IR REFLOW PROFILE



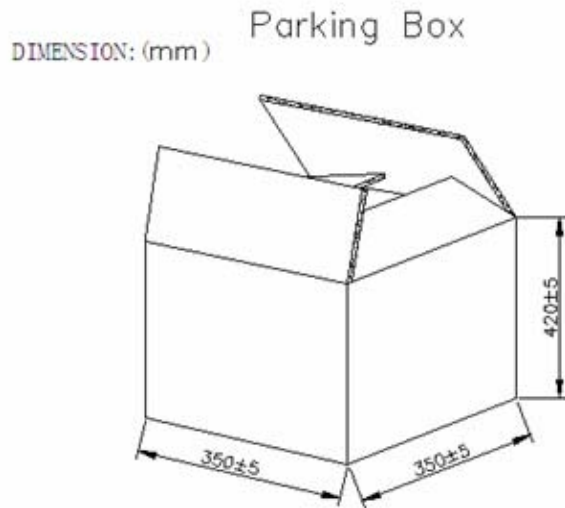
Total Time : 200 Sec.Max

Solder melting point : 185°C



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PACKING



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

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