



# 浙江汇隆晶片技术有限公司

Zhejiang Huilong Crystals Technology Co.,Ltd

## SPECIFICATION FOR APPROVAL

CUSTOMER	_____
NOMINAL FREQUENCY	40.000000 MHz
HOLDER TYPE	3225
SPEC. NO. ( P/N )	HL40000362
CUSTOMER P/N	_____
ISSUE DATE	Oct.26,2023

APPROVED	PREPARED	QA
		
<b>APPROVED BY CUSTOMER:</b>		<b>AVL Status</b>
Please return one copy with approval to HLC		

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ISO9001  
ISO14001



RoHS Compliant ( Pb- Free )



# TYPE HL SEAM SEALED X'TAL

## ELECTRICAL SPECIFICATIONS

HLC Parts Number : HL40000362

Item	Symbol	Specifications				Notes
		Min	Type	Max	Units	
Nominal frequency	FO	40.000000			MHz	
Mode of Oscillation	OT	Fundamental				
Load Capacitance	CL	15			pF	
Frequency Tolerance	FT	± 8			ppm	at 25°C ± 3°C
Frequency Stability		± 10			ppm	with working temperature Reference to 25°C frequency
Working temperature range	TR	-30~85			°C	
Drive Level	DL		100	300	μW	
Series Resonant Resistance RR	CI/RR	18			Ω	Max.
Insulation Resistance	IR	>500			MΩ	
Shunt Capacitance C0	C0	0.7~0.9			pF	Max.
Aging		± 3			ppm/yr.	
Storage temperature range		-40 ~ 125			°C	
FDDL		< 5			ppm	
DLD2		< 5			Ω	

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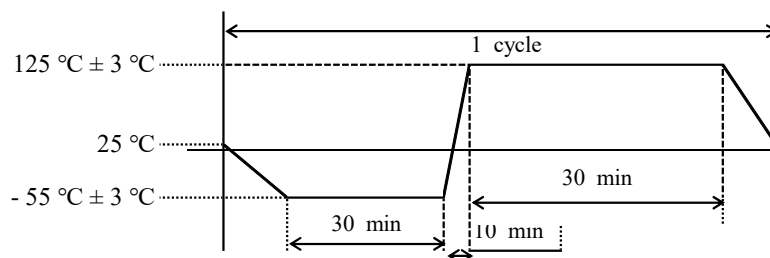




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## RELIABILITY SPECIFICATIONS

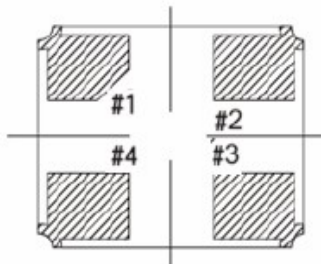
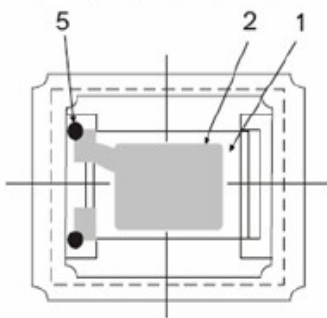
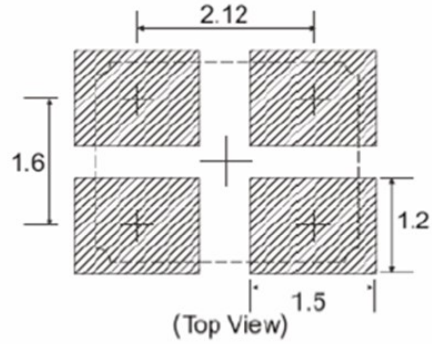
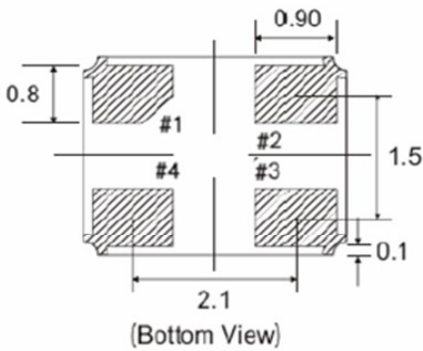
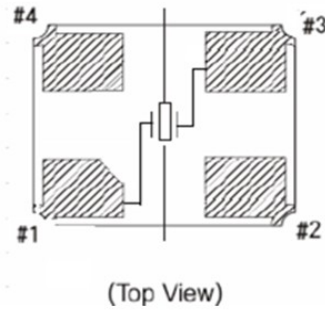
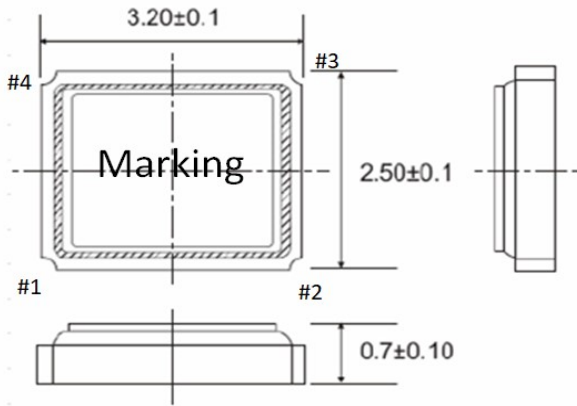
NO.	TEST ITEM	TEST METHODS
1	DROP TEST	Device are dropped from a height of 150 cm onto 2 mm thickness stainless plate executing 3 times of random drops.
2	MECHANICAL SHOCK	Device are shocked to half sine wave (1000 G) three mutually perpendicular axes each 3 times.
3	VIBRATION	Frequency range 10 ~ 2000 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



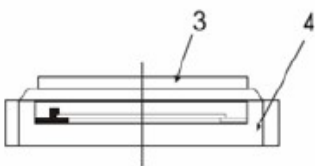
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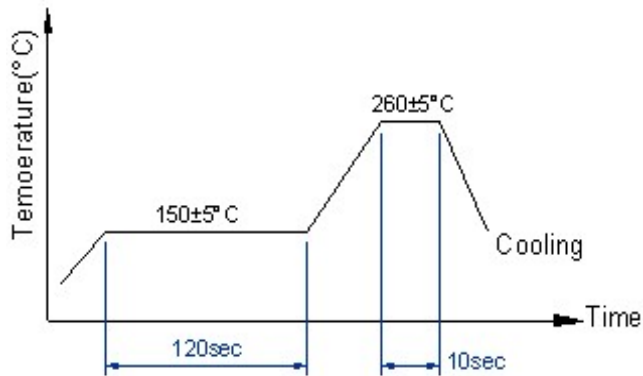
## DIMENSIONS



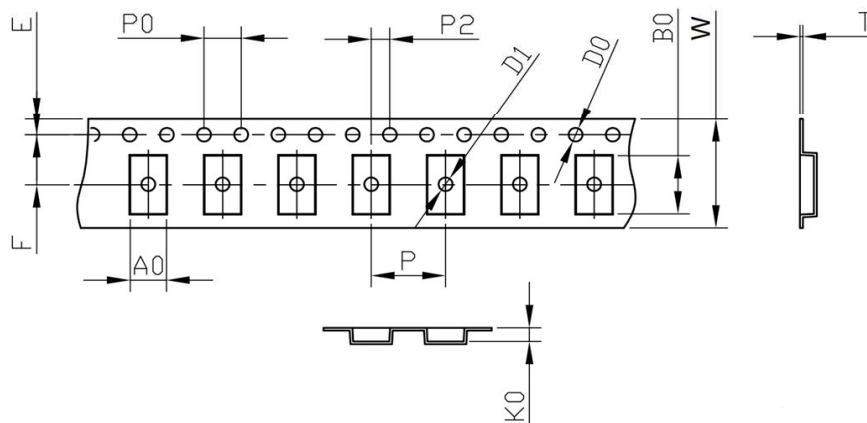
1	Quartz Blank
2	Electrode
3	Lid
4	Base
5	Conductive adhesive



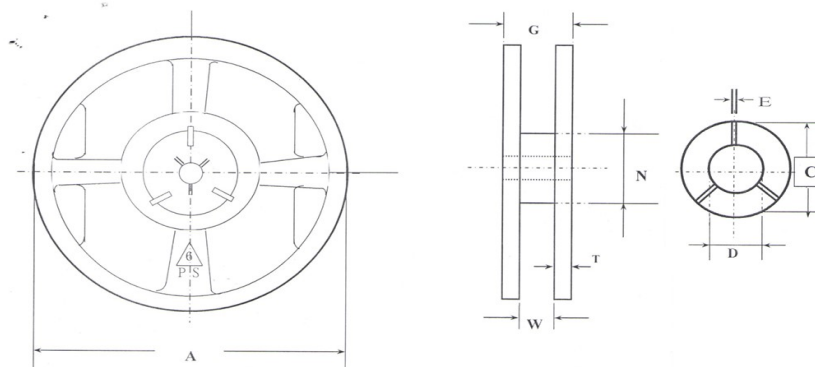
## SUGGESTED IR REFLOW PROFILE



## PACKING



	W	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	E	F	P	P <sub>0</sub>	P <sub>2</sub>	D <sub>0</sub>	D <sub>1</sub>	T
3225	8.0±0.3	2.70±0.1	3.40±0.1	0.80±0.1	1.75±0.1	3.5±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.55±0.05	1.0±0.1	0.25±0.05

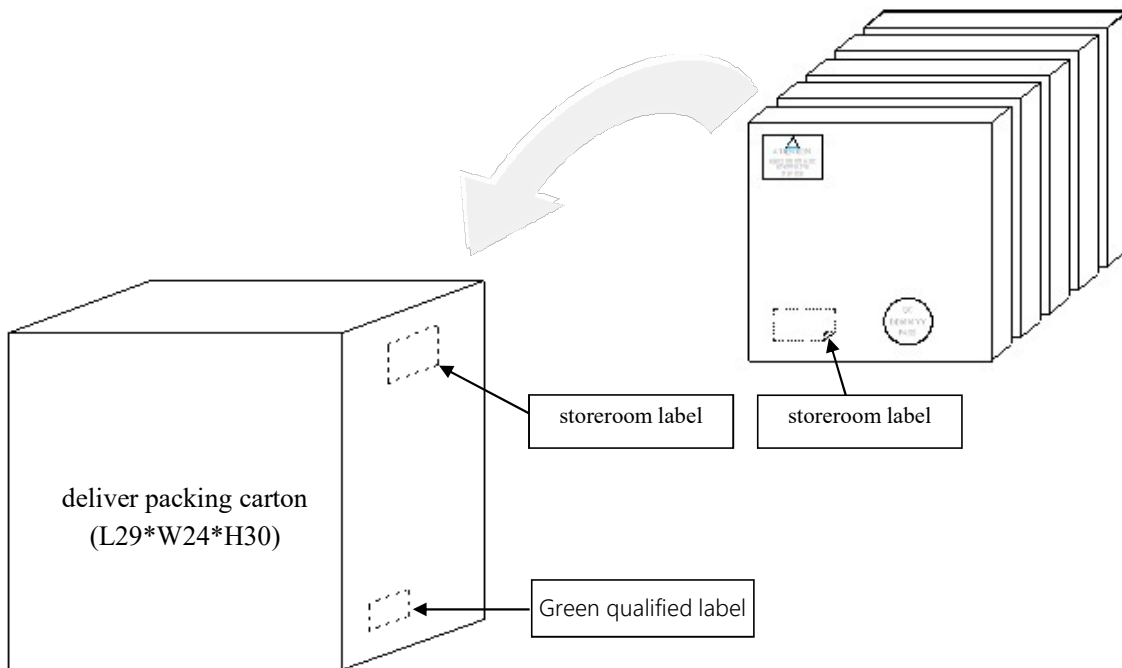
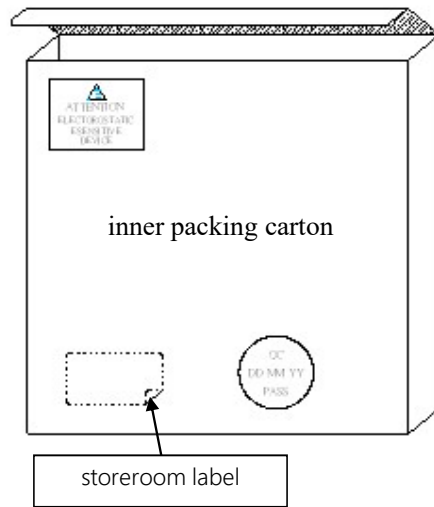
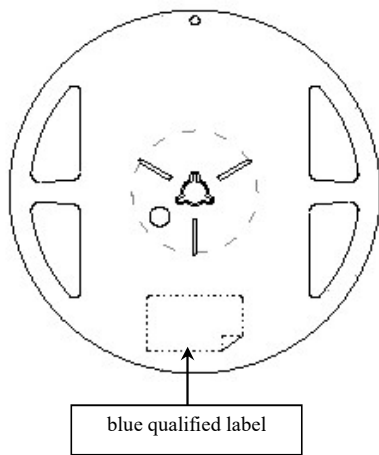
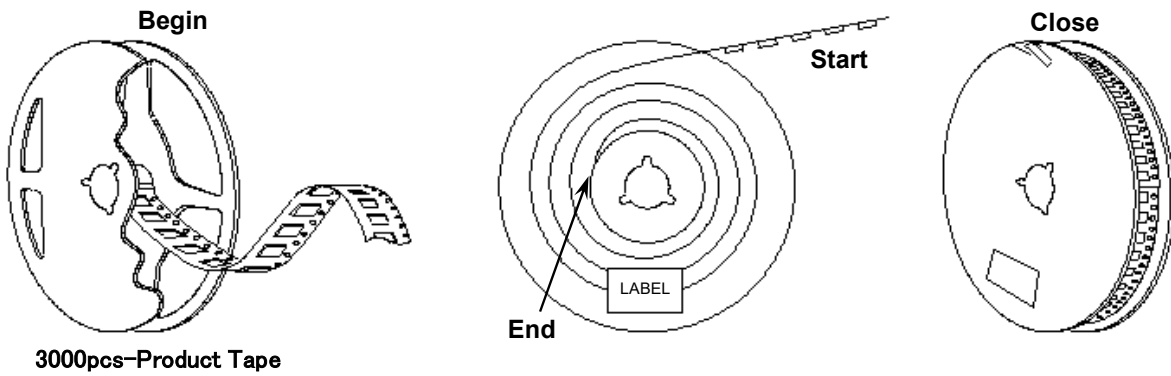


	A	W	T	N	C	D	E	G
3225	178±2.0	9.5±0.5	1.4±0.2	60.2±0.5	20.2±1.0	13.2±0.5	2.5±0.5	12±1.4

- 230mm minimum leader which consist of carrier and/or tape followed by a minimum of 160mm of empty carrier tape sealed with cover tape.
- 160mm minimum trailer of empty carrier tape sealed with cover tape.

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## PACKING



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