



浙江汇隆晶片技术有限公司

Zhejiang Huilong Crystals Technology Co.,Ltd

SPECIFICATION FOR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

24.000000 MHz

HOLDER TYPE

5032

SPEC. NO. (P/N)

HY24000055-3

CUSTOMER P/N

ISSUE DATE

Dec.22,2025

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

浙江省金华市婺城区秋滨街道新宏路895号
No. 895 Xinhong Road, Qiubin Street, Wucheng District,
Jinhua City, Zhejiang Province, China
TEL: 0086-579-82273331
FAX: 0086-579-82273198
<http://www.cn-hlc.com>



ISO9001
ISO14001



RoHS Compliant (Pb- Free)



TYPE HY SEAM SEALED X'TAL

ELECTRICAL SPECIFICATIONS

HLC Parts Number : HY24000055-3

Item	Symbol	Specifications				Notes
		Min	Type	Max	Units	
Nominal frequency	FO	24.000000			MHz	
Mode of Oscillation	OT	Fundamental				
Load Capacitance	CL	18			pF	
Frequency Tolerance	FT	± 30			ppm	at 25°C $\pm 3^\circ\text{C}$
Frequency Stability		± 30			ppm	with working temperature Reference to 25°C
Working temperature range	TR	-40~85			°C	
Drive Level	DL	100			μW	
Series Resonant Resistance RR	CI/RR	40			Ω	Max.
Insulation Resistance	IR	>500			M Ω	
Shunt Capacitance C0	C0	5			pF	Max.
Aging		± 3			ppm/yr.	
Storage temperature range		-55~ 125			°C	



HLC
*** 24.08x**

HLC: HLC Use Code x: CL Code x: Date Code

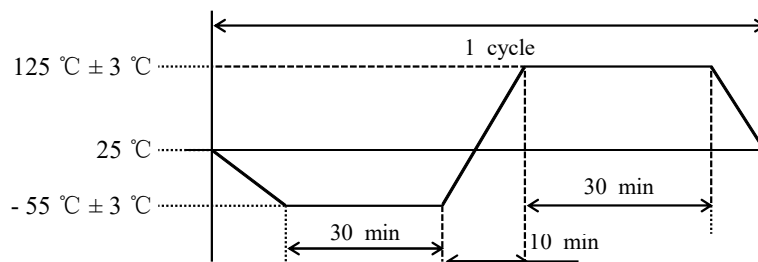
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6pf	1	11pf	I	11.4pf	b
8pf	2	8.5pf	J	13.5pf	d
10pf	3	7.1pf	K	20.5pf	e
12pf	5	19pf	L	8.8pf	f
15pf	6	12.5pf	M	17pf	g
16pf	7	27pf	N	4.3pf	h
18pf	8	7.3pf	O	9.9pf	i
20pf	9	13pf	P	24pf	j
22pf	A	11.5pf	Q	9.4pf	m
25pf	B	7pf	R	8.2pf	n
28pf	C	14pf	S	6.8pf	q
30pf	D	23pf	T	90pf	r
32pf	E	11.1pf	U	5.6pf	t
9.5pf	F	33pf	V	5pf	u
9pf	G	10.5pf	W	10.7pf	v
		9.2pf	Y	7.2pf	y
		50pf	Z		

[illegible]

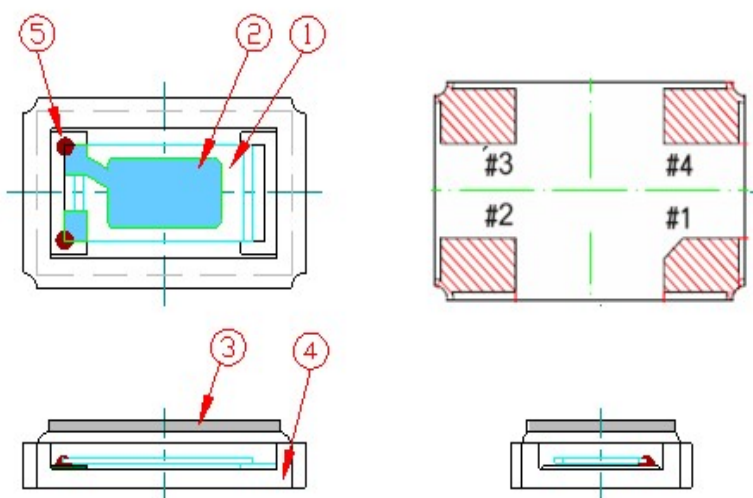
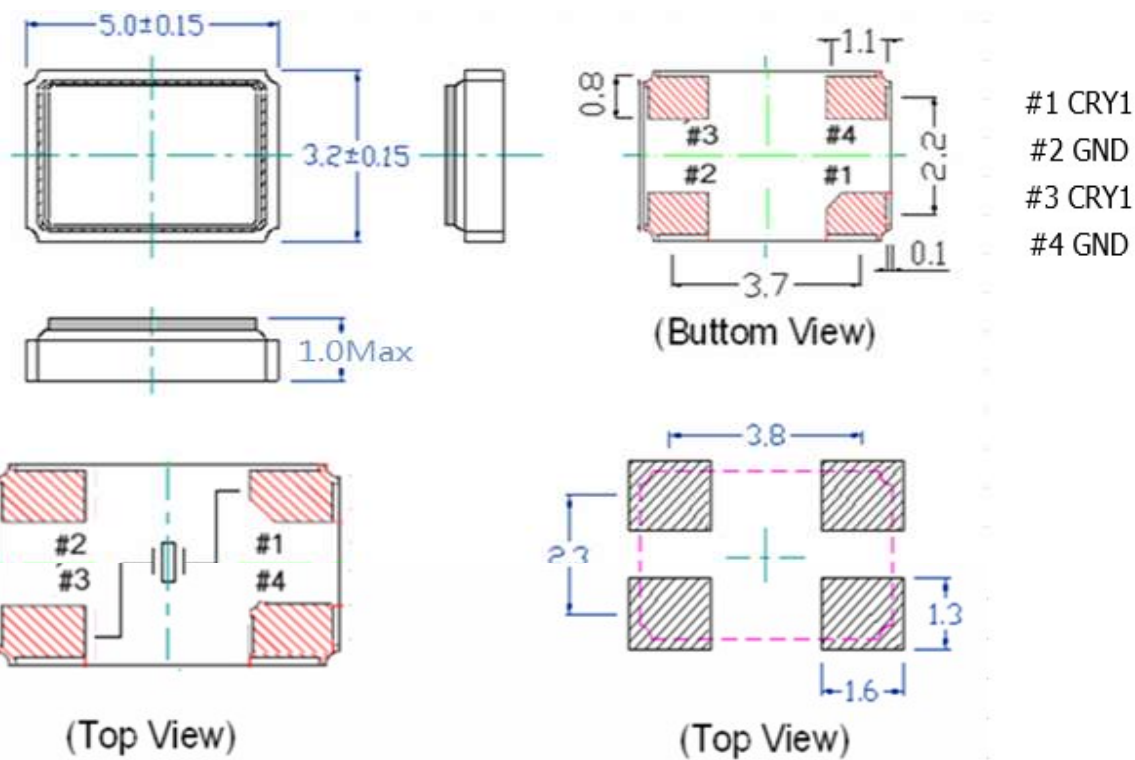
备注：年份印字代码原则按奇偶年两年一个循环

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 - 40 °C ± 2°C for 16 hours
7	HIGH TEMP. STORAGE	Leave at 125 °C ± 3°C for 72 hours
8	THERMAL SHOCK	Total 100 cycles of the following temperature cycle

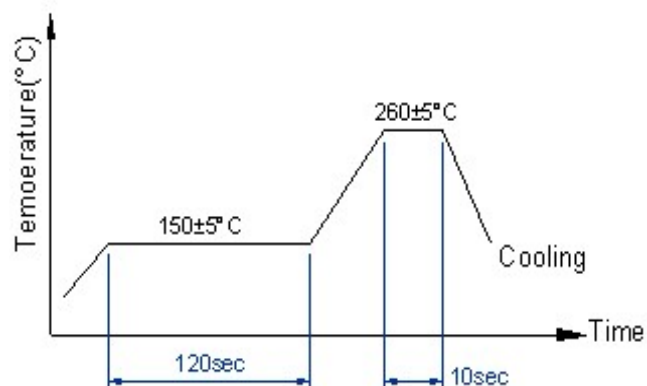


DIMENSIONS



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

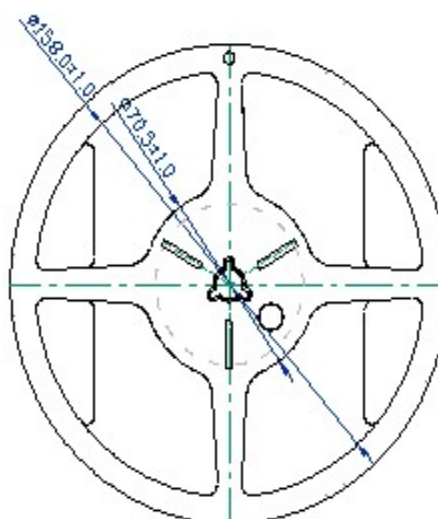
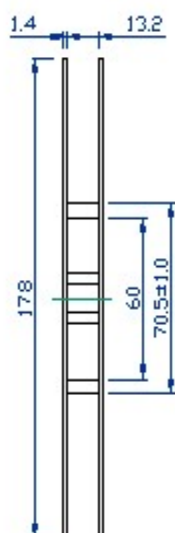
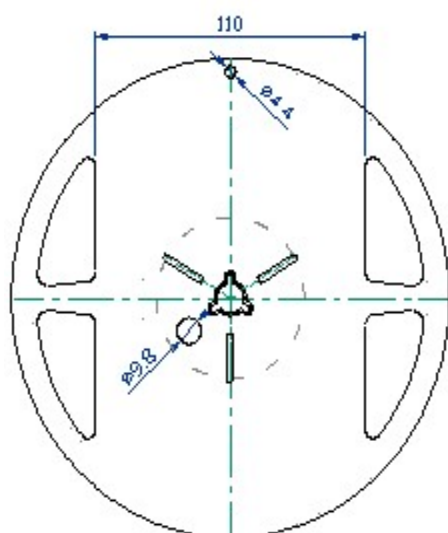
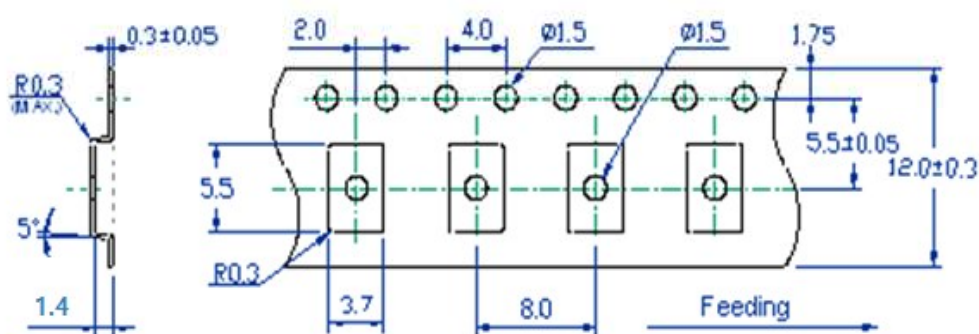
SUGGESTED IR REFLOW PROFILE



Total Time: 200 Sec.Max

Solder melting point : 185°C

PACKING



1. 230mm minimum leader which consist of carrier and/or tape followed by a minimum of 160mm of empty carrier tape sealed with cover tape.
2. 160mm minimum trailer of empty carrier tape sealed with cover tape.

PACKING

