



PRODUCT SPECIFICATION SHEET

CUSTOMER'S APPROVAL&DATE

[illegible]

APPROVED	CHECKED	DESIGNED
Jay Lee	Jin Qi	Chen XuanRu

RoHS Compliant



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ATTACHMENT (optional)

- | | | | |
|------------------------------------|---|------------------------------|--|
| • ELECTRICAL CHARACTERISTICS TEST | A | ☐ YES | ☒ NO |
| • TEMPERATURE CHARACTERISTICS TEST | B | ☐ YES | ☒ NO |



FL P/N: 1S26000044

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PRODUCT DESCRIPTION

Standard atmospheric conditions

Unless otherwise specified. The standard range of atmospheric conditions for making measurement and tests are as follow:

Ambient temperature : $25\pm 2^{\circ}\text{C}$
Relative humidity : 40%~70%

If there is no doubt the results, measurement shall be made within the following limits:

Ambient temperature : $25\pm 2^{\circ}\text{C}$
Relative humidity : 40%~70%

Measure equipment

Electrical characteristics measured by S&A250B or equivalent.

Crystal cutting type

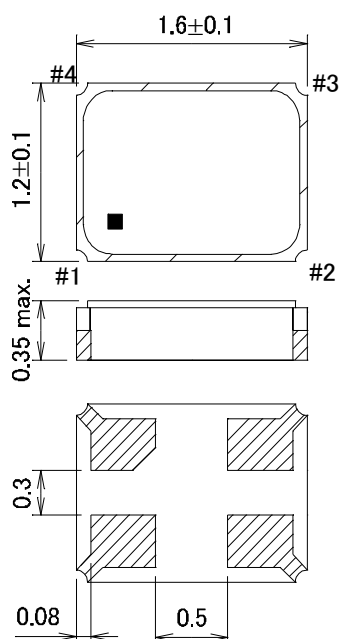
The crystal is using AT CUT (thickness shear mode)

ELECTRICAL SPECIFICATIONS

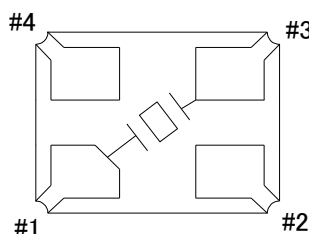
No.	Items	Electrical Spec.					Remarks
		Symbol	Min	Typ	Max	Units	
1	Nominal Frequency	FL	26.000000			MHz	-
2	Oscillation Mode	-	Fundamental			-	-
3	Load Capacitance	CL	8.0			pF	-
4	Frequency Tolerance	-	± 10			ppm	at $25\pm 2^{\circ}\text{C}$
5	Frequency Stability	-	± 10			ppm	at $-20\sim +70^{\circ}\text{C}$ (reference 25°C)
6	Shunt Capacitance	C0	-	-	3	pF	
7	Aging (/1 year)	-	± 3			ppm/year	at $25\pm 2^{\circ}\text{C}$
8	Operating Temperature	-	-20		70	$^{\circ}\text{C}$	-
9	Storage Temperature	-	-40		85	$^{\circ}\text{C}$	-
10	Equivalent series resistance	ESR	-		90	ohms	-
11	Insulation Resistance	IR	500	-	-	M-ohms	at DC 100V
12	Drive Level	DL		50	100	μW	-



DIMENSIONS unit:mm

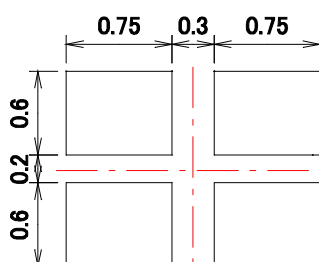


CONNECTION DIAGRAM (TOP VIEW)

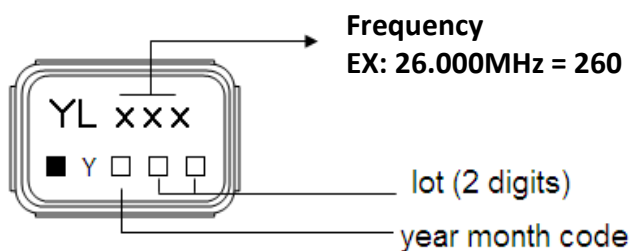


Pin	Function
#1	Xtal terminal (Input)
#2	GND terminal
#3	Xtal terminal (Output)
#4	N/C

LAND PATTERN unit:mm



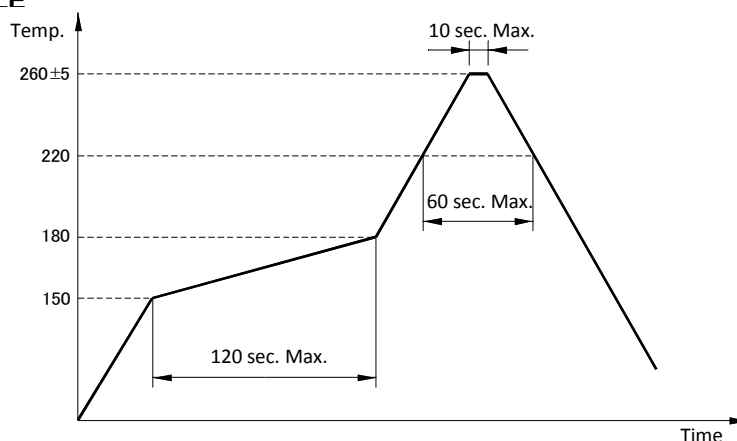
MARKING



month year		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2017	2021	A	B	C	D	E	F	G	H	J	K	L	M
2018	2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	2023	a	b	c	d	e	f	g	h	j	k	l	m
2020	2024	n	p	q	r	s	t	u	v	w	x	y	z

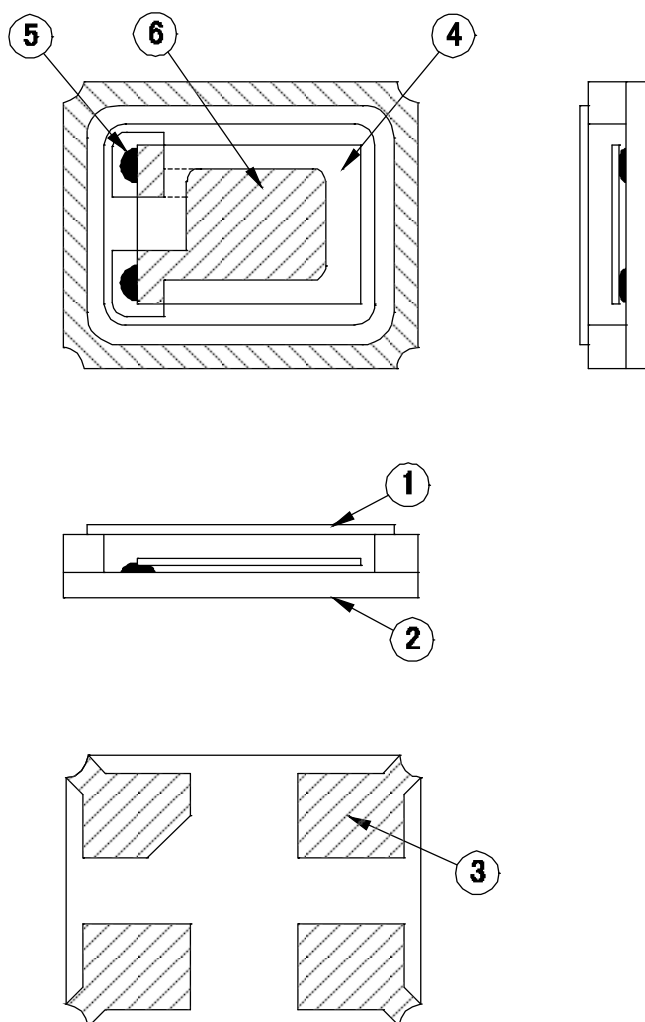
SUGGESTED REFLOW PROFILE

Total time : 360 sec. Max.
Solder melting point :225 °C





STRUCTURE ILLUSTRATION



NO	COMPONENTS	MATERIALS	QTY	FINISH/SPECIFICATIONS
1	Cap(Lid)	Kovar(Fe+Co+Ni) + AuSn	1	-
2	Base(Package)	Alumina Ceramics (Al ₂ O ₃)	1	
3	Pad(Package)	Ni + Au	4	Ni + Au plating
4	Crystal blank	SiO ₂	1	-
5	Conductive adhesive	Ag	2	Silicone resin
6	Electrode	Noble metal	2	-

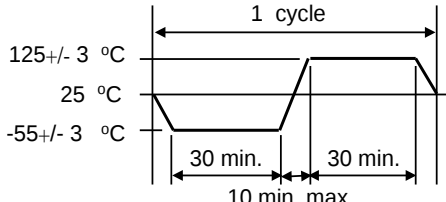


RELIABILITY SPECIFICATIONS

1.MECHANICAL ENDURANCE

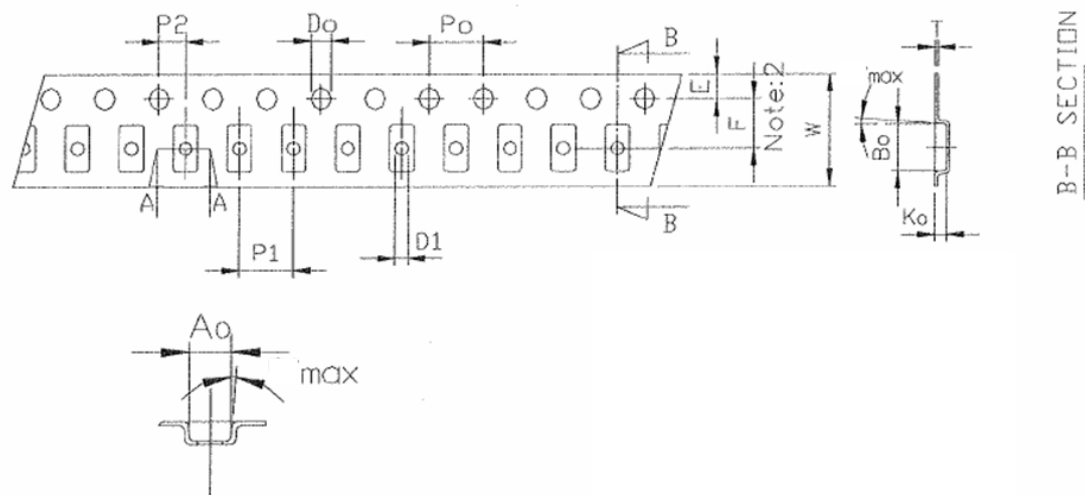
No.	Test Item	Test Methods	
1	Drop Test	150 cm height, fall freely onto stainless plate 3 times.	JIS C6701
2	Shock Test	150g/150cm Height, 3 times in the direction of $\pm x$, $\pm y$, $\pm z$ on concrete floor	IEC-68-02-27
3	Mechanical Shock	Device are shocked to half sine wave (1000 G) three mutually perpendicular axes each 3 times. 1.0m sec. duration time	MIL-STD-202F
4	Vibration	Frequency range 10 ~ 55 Hz Amplitude 1.52 mm Perpendicular axes each test time 2 hours (x,y,z Axis) Total test time 6 hours	MIL-STD-883E
5	Gross Leak	Standard Sample For Automatic Gross Leak Detector Test Pressure 2kg/cm ²	MIL-STD-883E
6	Fine Leak	Helium Bombing 4.5kgf/cm ² for 2 hr	MIL-STD-883E
7	Solderability	Temperature 245 °C $\pm$ 5 °C Immersing depth 0.5 mm minimum Immersion time 10 $\pm$ 0.5 seconds Flux Rosin resin methyl alcohol solvent (1 : 4)	MIL-STD-883E
8	Resistance To Soldering Heat	Pre-heat temperature 125 °C Pre-heat time 60 ~ 120 sec. Test temperature 260 $\pm$ 5 °C Test time 5 $\pm$ 1 sec.	MIL-STD-202F

2.ENVIRONMENTAL ENDURANCE

No.	Test Item	Test Methods	
9	High Temp. Storage	+ 125 °C $\pm$ 3 °C for 500 $\pm$ 12 hours	MIL-STD-883E
10	Low Temp. Storage	- 40 °C $\pm$ 3 °C for 500 $\pm$ 12 hours	
11	Thermal Shock	Total 100 cycles of the following temperature cycle 	MIL-STD-883E
12	High Temp&Humidity	85°C $\pm$ 3°C, RH 85%, 500Hrs	JIS C5023



PACKING : (EIA-481-2)



Dimension PKG Type	Unit : mm						
	A0	B0	K0	T	W	E	F
1612(8mm)	1.45±0.1	1.85±0.1	0.45±0.10	0.25±0.05	8±0.3	1.75±0.1	3.50±0.1
	P1	P2	D1	D0	P0		
	4±0.1	2±0.1	0.6±0.1	1.55±0.05	4±0.1		

Standard Reel Quantity is 3,000 pcs per reel.

THE INSPECTION FOR TAPE TENSION

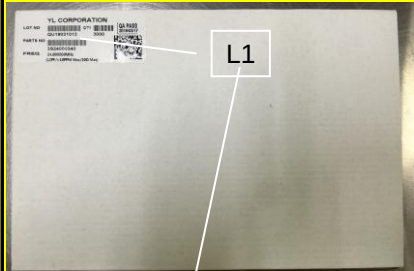
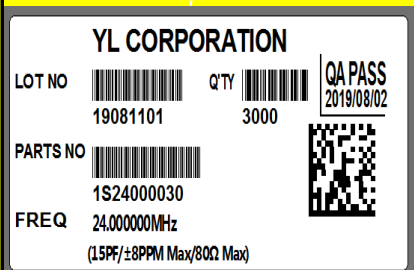
ITEM		Defect	Method
Appearance	ALL	1.The tape is not coincidence 2.The bubble	Visual inspection
Tape Tension	8045、7050 6035-12mm 5032-12mm 3225-12mm	overstep 61±6g(55~67g)	Pull test
	3225-8mm	overstep 40±5g(35~45g)	
	2520-8mm	overstep 55±6g(49~61g)	
	2016-8mm	overstep 34±6g(28~40g)	
	1612-8mm	overstep 34±6g(28~40g)	
	6035-16mm 5032-16mm	overstep 60±6g(54~66g)	

REMARK : NA

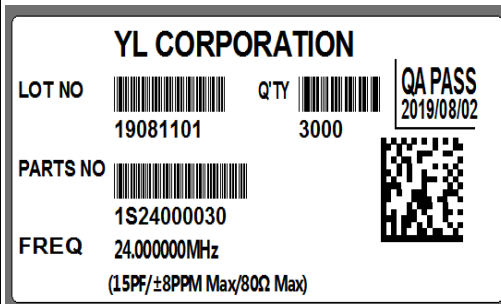


SMD PRODUCT PACKING STANDARD

Out-going packing instruction

Reel Packing	Inner Packing	Carton
name: reel standard: diameter 18cm material: plastics	name: inner box standard: L19.0xW19.0xH2.5cm material: B corrugated paper	name: carton standard: L34.0xW22.0xH22.0cm material: AB corrugated paper(10 boxes enter)
		
		

The label instruction

Label Drawing	Mark	Name of Article	Spec.	Size	Printing
	L1	条码标签 Bar Code Label (Chintz Paper)	1.Date Code 2.Lot No. 3.Part No. 4.Freq 5.Q'ty	75x35mm	White

Remark

Specifications on the label is for the use of templates with different product specifications may vary.
If customer specified requirements for labels packaging. please provide the operation procedure.



广东惠伦晶体科技股份有限公司
GUANGDONG FAITH LONG CRYSTAL TECHNOLOGY Co., Ltd.

TEL : +86(0)769-38879888
FAX : 86(0)769-38879889

FL P/N: 1S26000044
VER: S0 PAGE: 9/9

Range	Products	Packing Material
Banned Substances	Maximum concentration ppm(mg/kg)	Maximum concentration ppm(mg/kg)
1. 镉及镉化合物 Cadmium and cadmium compounds	100	100
2. 铅及铅化合物 Lead and lead compounds	1000	100
3. 汞及汞化合物 Mercury and mercury compounds	1000	100
4. 六价铬化合物 Hexavalent-Chromium VI (Cr+6)	1000	100
5. 聚溴联苯 PBB Polybrominated biphenyls	1000	N/A
6. 聚溴二苯醚 PBDE Polybrominated diphenyl ethers	1000	N/A
7. 邻苯二甲酸二(2-乙基己基)酯 DEHP Di (2-ethylhexyl) phthalate	1000	N/A
8. 邻苯二甲酸丁苄酯 BBP Butyl Benzyl Phthalate	1000	N/A
9. 邻苯二甲酸二丁酯 DBP Dibutyl Phthalate	1000	N/A
10 邻苯二甲酸二异丁酯 DIBP Diisobutyl Phthalate	1000	N/A
11. 氟 (F)、氯 (Cl)、溴 (Br)、碘 (I) Fluorine、Chlorine、Bromine、Iodine	900、900、900、900 注: Br+Cl<1000	N/A
12. 包装材料中重金属(汞、镉、六价铬、铅、PBB、PBDE)之总量 Heavy metals (mercury, cadmium, lead, Cr+6,PBB and PBDE) in packing materials	N/A	100 铅(Pb) + 镉(Cd) + 汞(Hg) + 六价铬(Cr+6) <100ppm
13. 高度关注物质 SVHC-Substances of Very High Concern	1000	N/A

