Product Specification

Number: L-KLS14-JU-308-32.768-12.5-15-B

Name: Crystal Resonator

Customer:

Date: 2026-03-11

Customer Signature:

NINGBO KLS ELECTRONIC CO; LTD

Tel : 0086-574-86828566

Fax : 0086-574-86824882

ADD : NO. 8-1, RONGXIA RD. XIAPU SHANQIAN INDUSTRIAL ZONE BEILUN NINGBO ZHEJIANG.

WWW.KLSELE.COM

Compi	Check	Review	Approva
Jenny	Jack.C		

Revision Status

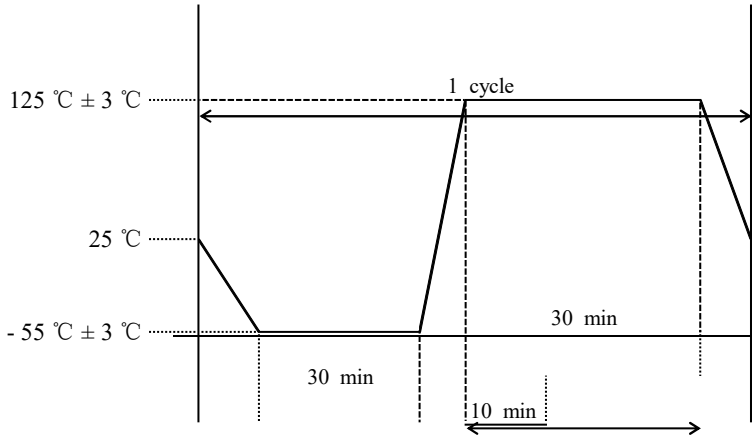
Version	Date	Revision Description	Prepared	Checked	Approved

ELECTRICAL SPECIFICATIONS

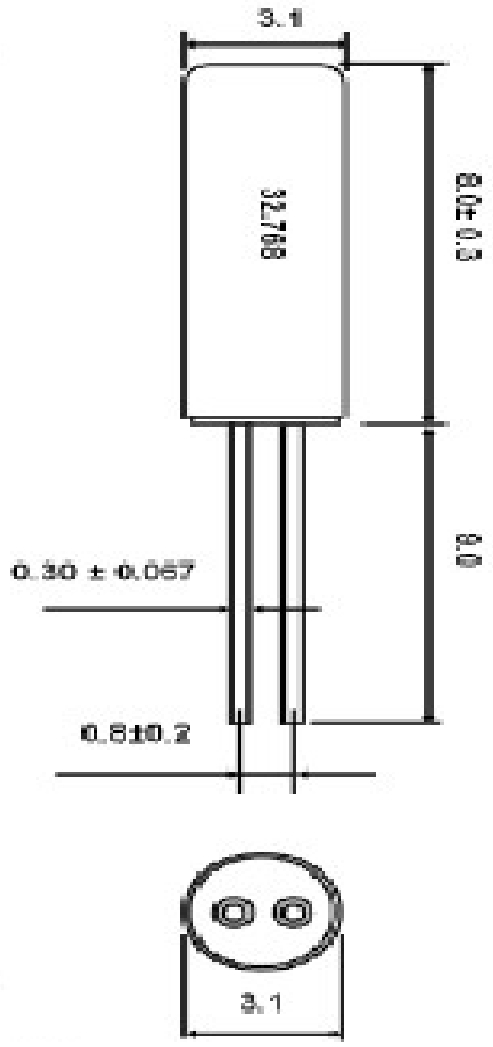
Item	Symbol	Specifications				Notes
		Min	Type	Max	Units	
Nominal frequency	FO		32.768000		KHZ	
Mode of Oscillation	OT		Fundamental			
Load Capacitance	CL		12.5		pF	
Frequency Tolerance	FT		± 15		ppm	at 25℃ ± 3℃
Frequency Stability			± 30		ppm	with working temperature Reference to 25℃
Working temperature range	TR		-20~70		℃	
Drive Level	DL		100		μW	
Series Resonant Resistance RR	CI/RR		70		KΩ	Max.
Shunt Capacitance C0	C0		5		pF	
Aging			±5		ppm/yr.	
Storage temperature range			-40 ~ 85		℃	
Insulation Resistance		500MΩ Min at D.C.100 V				
Marking		32.768				

RELIABILITY SPECIFICATIONS

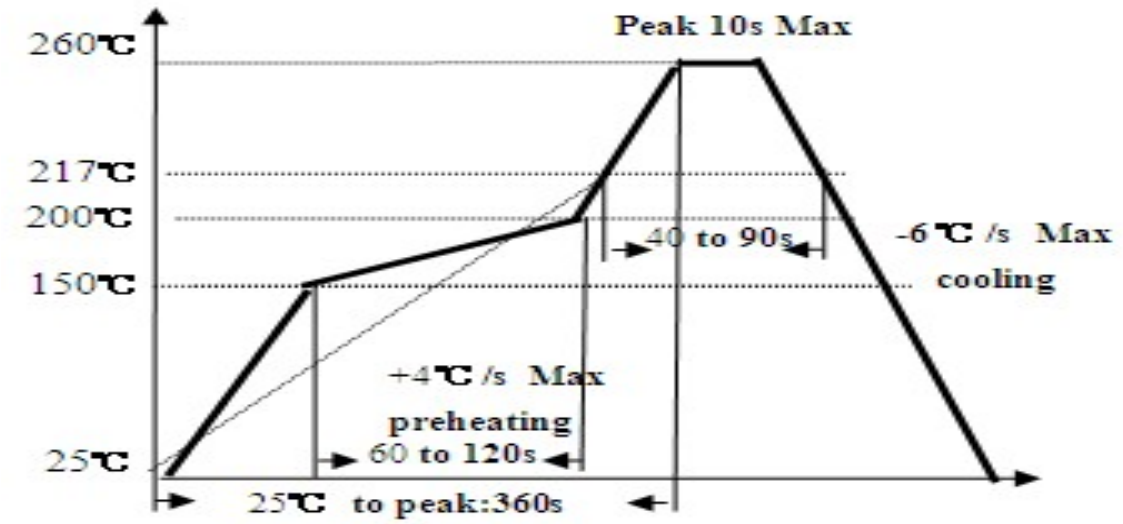
NO.	TEST ITEM	TEST METHODS	
1	DROP TEST	Device are dropped from a height of 75 cm onto 3 mm thick wood to perform 3 times of random drops.	
2	MECHANICAL SHOCK	Device are shocked to half sine wave (1000 G) three mutually perpendicular axes each 3 times.	
3	VIBRATION	Frequency range	10 ~ 2000 Hz
		Amplitude	1.5 mm
		Sweep Time	20 minute
		Test Time	2 hours
4	SOLDERABILITY	MIL - STD - 20E Method 208C	
		Temperature	245℃±5℃
		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℃ solder pot, above 180℃ is 90 ~ 120 sec.	
6	LOW TEMP. STORAGE	Leave at - 55 ℃ ± 2℃ for 1000 ± 12 hours	
7	HIGH TEMP. STORAGE	Leave at 125 ℃ ± 2℃ for 1000 ± 12 hours	
8	THERMAL SHOCK	Total 100 cycles of the following temperature cycle	



DIMENSIONS



SUGGESTED IR REFLOW PROFILE



Solder melting point ：185℃

Carrier tape and Tape reel

1 Dimensions of carrier tape

4. Package