

PSE Technology Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	32.768 KHz
PRODUCT TYPE	TYPE G4 SMD X'TAL
SPEC. NO. (P/N)	G43270009
CUSTOMER P/N	
ISSUE DATE	Mar.18,2011
VERSION	D

APPROVED	PREPARED	QA
Brenda	Clane	Canthur
APPROVED BY CUSTOMER:		AVL Status
Please return one copy	with approval to PSE-TW	

PSE Technology Corporation

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http://www.saronix-ecera.com.tw

*RoHS Exception

*HF-Halogen Free

*REACH Compliant



*** A company of PERICOM Semiconductor Corporation ***

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VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
Α	Mar.1,2010			Initial Release	
В	Mar.2,2010			Cancel Pb-free	
С	Sep.24,2010			New Logo	
D	Mar.18,2011			Revised Format	

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ELECTRICAL SPECIFICATIONS

SRe Part Number: G43270009

Parameters	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	32.768	KHz	
Frequency Tolerance	FT	± 20	ppm	at 25°C ± 5°C
Load Capacitance	CL	12.5	pF	Тур.
Drive Level	DL	1	μ W	Max.
Equivalent Series Resistance	ESR	50	ΚΩ	Max.
Temperature Coefficient	K	-0.035	ppm/°C2	Тур.
Shunt Capacitance	C0	1.35	pF	Тур.
Operating Temperature Range	TR	-40~85	°C	
Storage Temperature Range		-55~85	°C	
Aging		± 3	ppm	Max 1st year
Insulation Resistance		500	МΩ	Min.

Reliability (Mechanical and Environmental Endurance)

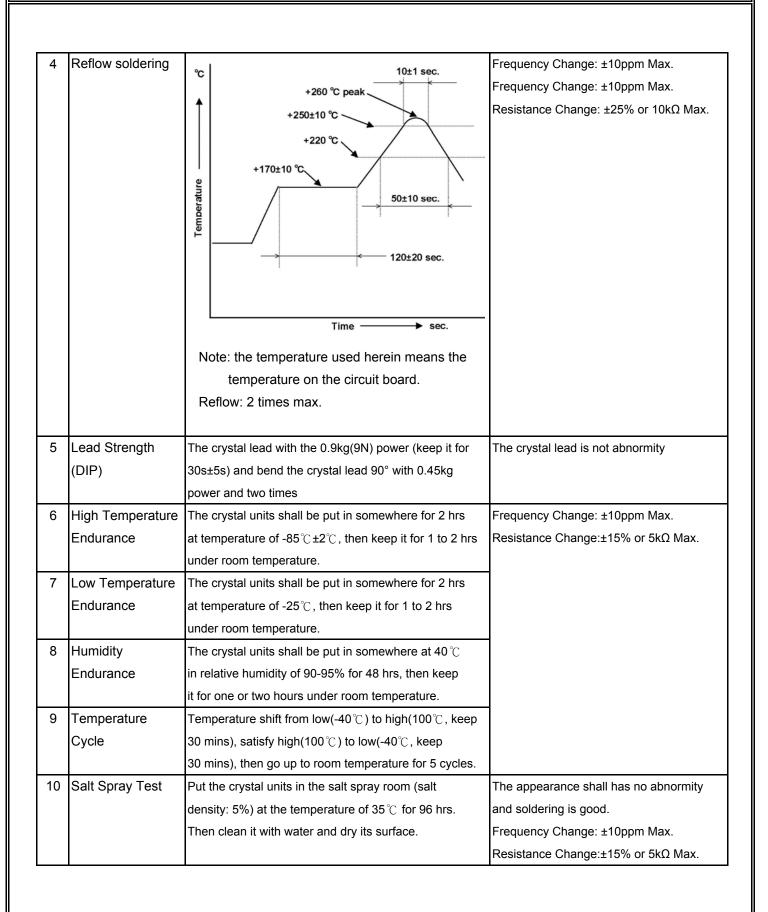
No.	Test Items	Test Method and Condition	Requirements
1	Vibration	(1) Vibration Frequency: 10 to 55Hz	Frequency Change: ±10ppm Max.
		(2) Vibration Amplitude: 1.5mm	Resistance Change: ±15% or 5kΩ Max.
		(3) Cycle Time: 1-2min(10-55-10Hz)	
		(4) Direction: X.Y.Z	
		(5) Duration: 2h/each direction	
2	Shock	3 Times free drop from 75cm height to hard wooden	Frequency Change: ±10ppm Max.
		board of thickness more than 30mm	Resistance Change: ±15% or 5kΩ Max.
3	Leakage	Put crystal units into a hermetic container and	Leakage: 1x10 [−] 8Pa·m3/s Max.
		Helium for 0.5-0.6Mpa, and keep it for 1h;	
		Check the leakage by a Helium leak detector	



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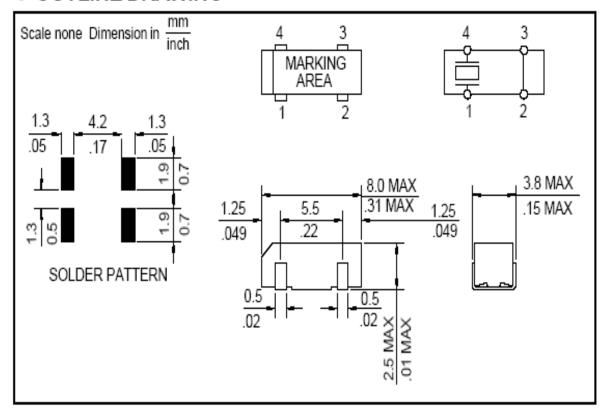
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Marking

32768

Dimensions (Units: mm)

OUTLINE DRAWING



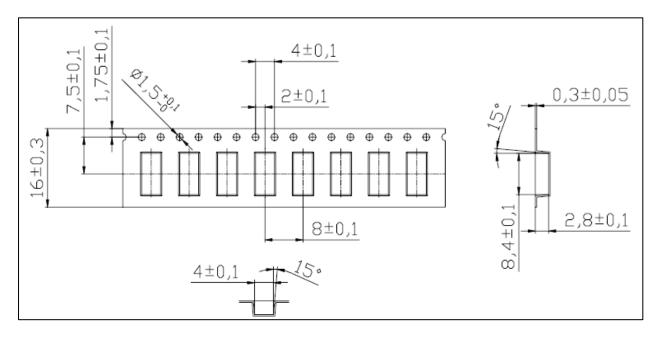
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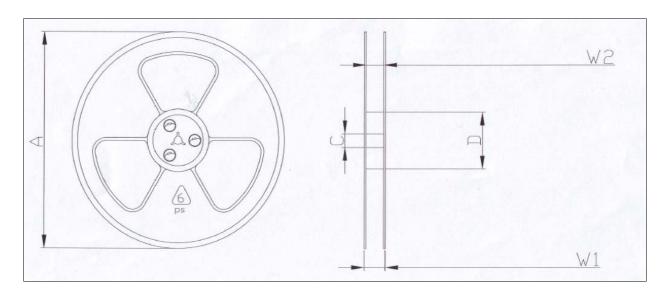
TAPE AND REEL SPECIFICATION

- 1. Tape and Reel form conform to EIA-481-B
- 2. The quantity of crystal units per reel shall be 3000PCS.
- 3. A "LABEL" on which necessary information is clearly written is on the surface of packing box and the reel.

CARRIER TAPE DIMENSIONS



REEL DIMENSIONS



規格	A±0.5	C±0.2	D±0.3	W1±0.2	W2+0.4
330*100*16	330	25	100	20	16