PERICOM® SaRonix-ecera®

PSE Technology Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER NOMINAL FREQUENCY 32.768 KHz **TYPE G4 SMD X'TAL** PRODUCT TYPE SPEC. NO. (P/N) G43270019 **CUSTOMER P/N ISSUE DATE** Nov.9,2012 **VERSION** В

APPROVED	APPROVED PREPARED	
Brenda	Vikbi Lu	Bedryer
APPROVED BY	AVL Status	
Please return one copy with approval to PSE-TW		

PSE Technology Corporation

No.2, Tzu-Chiang 5th Rd, Chung Li Industrial Park, Chung Li City, Taoyuan County, Taiwan (R.O.C.)

TEL: 886-3-451-8888 FAX: 886-3-461-3865

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

*RoHS Exception

*HF-Halogen Free

*REACH Compliant



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

E0-R-4-014 Rev.E Page i

G43270019

VER. B 9-Nov-12

VERSION HISTORY

Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
Jan.21,2011			Initial Release	
Nov.9,2012			Changed mechanical drawing	
	Date Jan.21,2011	Date Receipt Date Jan.21,2011	Date Receipt Date Date Jan.21,2011	Date Receipt Date Date Description Jan.21,2011 Initial Release

G43270019

VER. B 9-Nov-12

ELECTRICAL SPECIFICATIONS

SRe Part Number: G43270019

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	35	ΚΩ	Max.
Temperature Coefficient	K	-0.035	ppm/°C	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	ΜΩ	Min.

^{**}RoHS Complaint Product

Reliability (Mechanical and Environmental Endurance)

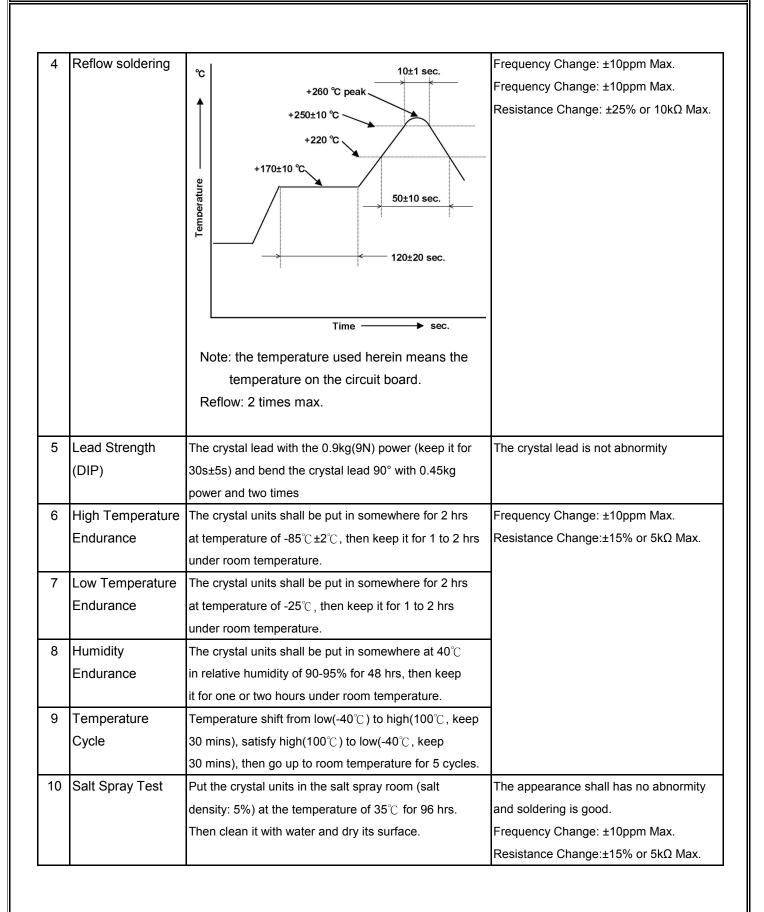
No.	Test Items	Test Method and Condition	Requirements
1	Vibration	(1) Vibration Frequency: 10 to 55Hz	Frequency Change: ±10ppm Max.
		(2) Vibration Amplitude: 1.5mm	Resistance Change: ±15% or 5kΩ Max.
		(3) Cycle Time: 1-2min(10-55-10Hz)	
		(4) Direction: X.Y.Z	
		(5) Duration: 2h/each direction	
2	Shock	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	



E0-R-4-014 Rev.E Page 1

G43270019

VER. B 9-Nov-12



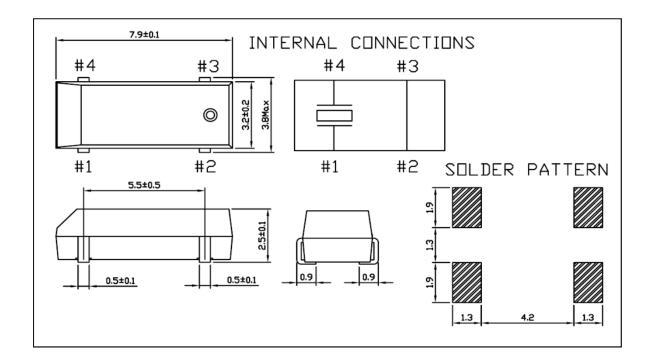
G43270019

VER. B 9-Nov-12

Marking

eBEmv

Dimensions (Units: mm)



E0-R-4-014 Rev.E Page 3

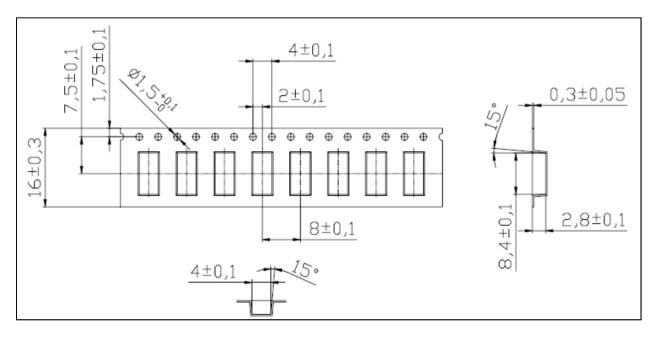
G43270019

VER. B 9-Nov-12

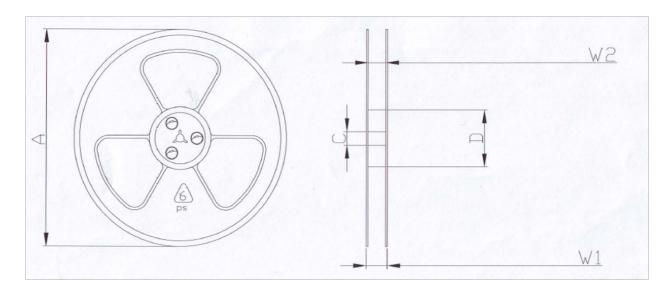
TAPE AND REEL SPECIFICATION

- 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

E0-R-4-014 Rev.E