			rporation APPROVAL
CUSTOMER			
NOMINAL FREQUEN		32	2.768 KHz
PRODUCT TYPE		TYPE (G4 SMD X'TAL
SPEC. NO. (P/N)		G	43270025
CUSTOMER P/N			
ISSUE DATE		Aug.1,2013	
VERSION			Α
APPROVED	PRE	PARED	QA
Alan Yang	Bre	enda	Bedayiri
APPROVED BY	CUSTON	MER:	AVL Status
Please return one copy		al to PSE-TW	
PSE Technology Cor No.2, Tzu-Chiang 5th Rd, Chur Chung Li City, Taoyuan County TEL: 886-3-451-8888 FAX: 886-3-461-3865	ng Li Industria	D.C.) *	RoHS Exception HF-Halogen Free
http://www.saronix-ecera.com.t	W	*	REACH Compliant

G43270025

VER. A 1-Aug-13

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Aug.1,2013			Initial Release	

PERICOM SaRonix-ecera

G43270025

VER. A 1-Aug-13

ELECTRICAL SPECIFICATIONS

SRe Part Number: G43270025

Parameters	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	32.768	KHz	
Frequency Tolerance	FT	± 20	ppm	at $25^{\circ}C \pm 5^{\circ}C$, measured at max drive level
Load Capacitance	CL	12.5	pF	Тур.
Drive Level	DL	1	μW	Max.
Equivalent Series Resistance	ESR	50	KΩ	Max.
Temperature Coefficient	К	-0.034 ± 0.01	ppm/°C ²	measured at max drive level
Shunt Capacitance	C0	1.35 / 1.45	pF	Typ. / Max.
Capacitance Ratio	C0/C1	450		Тур.
Operating Temperature Range	TR	-40~85	°C	
Storage Temperature Range		-55~85	°C	
Aging		± 5	ppm	Max. per year
Insulation Resistance		500	MΩ	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: $\pm 15\%$ or $5k\Omega$ 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: $\pm 15\%$ or $5k\Omega$ 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	

PERICOM' Saronix-ecera

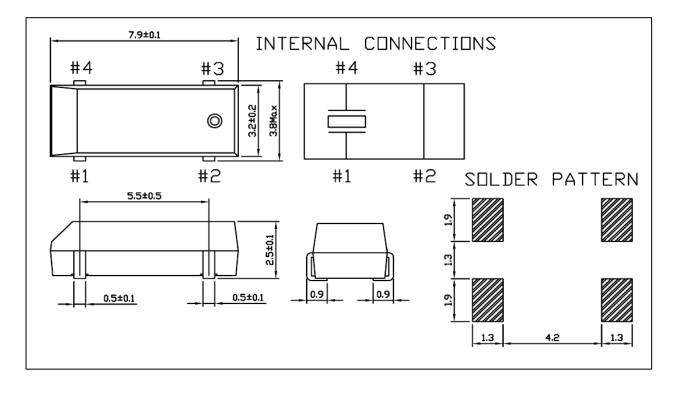
G43270025

4	Reflow soldering	°c 10±1 sec.	Frequency Change: ±10ppm Max.
		+260 °C peak	Frequency Change: ±10ppm Max.
		+250±10 ℃	Resistance Change: $\pm 25\%$ or $10k\Omega$ Max.
		+220 °C	
		י +170±10 °C	
		₩ ₩ ₩ ₩ ₩	
		50±10 sec.	
		·/ → 120±20 sec.	
		Time> sec.	
		Note: the temperature used herein means the	
		temperature on the circuit board.	
		Reflow: 2 times max.	
5	Lead Strength	The crystal lead with the 0.9kg(9N) power (keep it for	The crystal lead is not abnormity
	(DIP)	30s±5s) and bend the crystal lead 90° with 0.45kg	
		power and two times	5
6	High Temperature	The crystal units shall be put in somewhere for 2 hrs	Frequency Change: ±10ppm Max.
	Endurance	at temperature of $-85^{\circ}C \pm 2^{\circ}C$, then keep it for 1 to 2 hrs	Resistance Change: $\pm 15\%$ or $5k\Omega$ Max.
7	L T	under room temperature.	-
7	Low Temperature	The crystal units shall be put in somewhere for 2 hrs	
	Endurance	at temperature of -25° C, then keep it for 1 to 2 hrs	
0		under room temperature.	-
8	Humidity	The crystal units shall be put in somewhere at 40 $^{\circ}$ C	
	Endurance	in relative humidity of 90-95% for 48 hrs, then keep	
0	Tomporatura	it for one or two hours under room temperature.	-
9	Temperature Cycle	Temperature shift from low(-40 $^{\circ}$ C) to high(100 $^{\circ}$ C, keep 30 mins), satisfy high(100 $^{\circ}$ C) to low(-40 $^{\circ}$ C, keep	
	Cycle	30 mins), then go up to room temperature for 5 cycles.	
10	Salt Spray Test	Put the crystal units in the salt spray room (salt	The appearance shall has no abnormity
10	Sait Spiay Test		and soldering is good.
		density: 5%) at the temperature of 35 $^{\circ}$ for 96 hrs.	Frequency Change: ±10ppm Max.
		Then clean it with water and dry its surface.	
			Resistance Change: $\pm 15\%$ or $5k\Omega$ Max.



TYPE G4 SMD X'TAL G43270025 VER. A 1-Aug-13 Marking eBEmv Logo - \leftarrow - Date & Factory Code \geq В Е m Frequency Code Load Capacitance Date Code Factory Code

Outline Dime (Units: mm)



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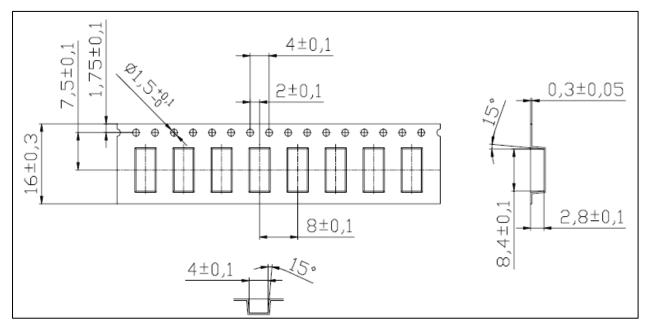
G43270025

VER. A 1-Aug-13

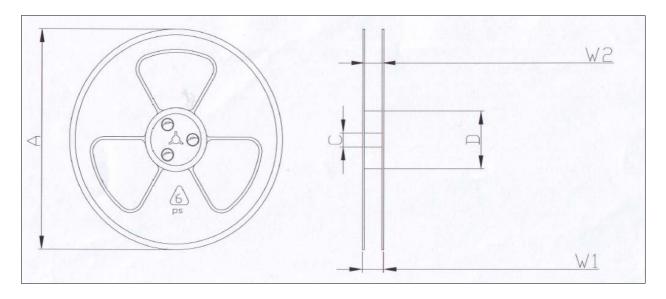
TAPE AND REEL SPECIFICATION

- 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

PERICOM SaRonix-ecera

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