			aRonix-eCera poration	
SPECIFICAT	TON	FOR	APPROVAL	
CUSTOMER				
NOMINAL FREQUENCY 32.70			68 KHz	
HOLDER TYPE TYPE G3 Cylinder			r SMD Quartz Crystal	
SPEC. NO. (P/N) G33			3270007	
CUSTOMER P/N				
ISSUE DATE		Apr.25,2011		
VERSION			D	
APPROVED		EPARED	QA	
Brenda	C	lane	Canthen	
APPROVED BY CUSTOMER :			AVL Status	
Please return one copy	with approv	val to PSE-TW		
PSE Technology Co No.2, Tzu-Chiang 5th Rd, Chu Chung Li City, Taoyuan Count TEL: 886-3-451-8888 FAX: 886-3-461-3865 http://www.saronix-ecera.com.	ng Li Industri y, Taiwan (R. tw	O.C.) *HF- *RE/	HS Exception Halogen Free ACH Compliant Inductor Corporation ***	

TYPE G3 Cylinder SMD Quartz Crystal

G33270007

VER. D 25-Apr-11

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Mar.12,2010			Initial Release	
В	Jul.23,2010			Changed Pb- Free to RoHS Compliant by Exemption	
С	Aug.26,2010			Correct Marking from 32.768 to 32768	
D	Apr.25,2011			Revised format	

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TYPE G3 Cylinder SMD Quartz Crystal

G33270007

VER. D 25-Apr-11

ELECTRICAL SPECIFICATIONS

SRe Part Number: G33270007

Parameters	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	32.768	KHz	
Mode of Oscillation	MO	Fundamental		+2° X-Cut
Load Capacitance	CL	12.5	pF	Typical
Calibration Tolerance		± 20	ppm	at 25℃ ± 5℃
Operating Temperature Range	TR	-40~85	°C	
Drive Level	DL	1	μW	Max.
Series Resonant Resistance	CI/RR	50	KΩ	Max.
Temperature Coefficient	К	-0.035	ppm/°C ²	Typical
Aging		± 3	ppm	Max 1st year
Insulation Resistance		500	MΩ	at DC 100V ± 15V

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	Hermetic seal	Checked:before the molded crystal uints	less than 1 × 10 EXP(–7) mbar.l/sec.
4	High temperature	240 hours at +85℃±2℃	Frequency Change:±10ppm Max.
		After 1-2hours past at room temperature from following	Resistance Change:±25% or 10kohm Max.
		test.	



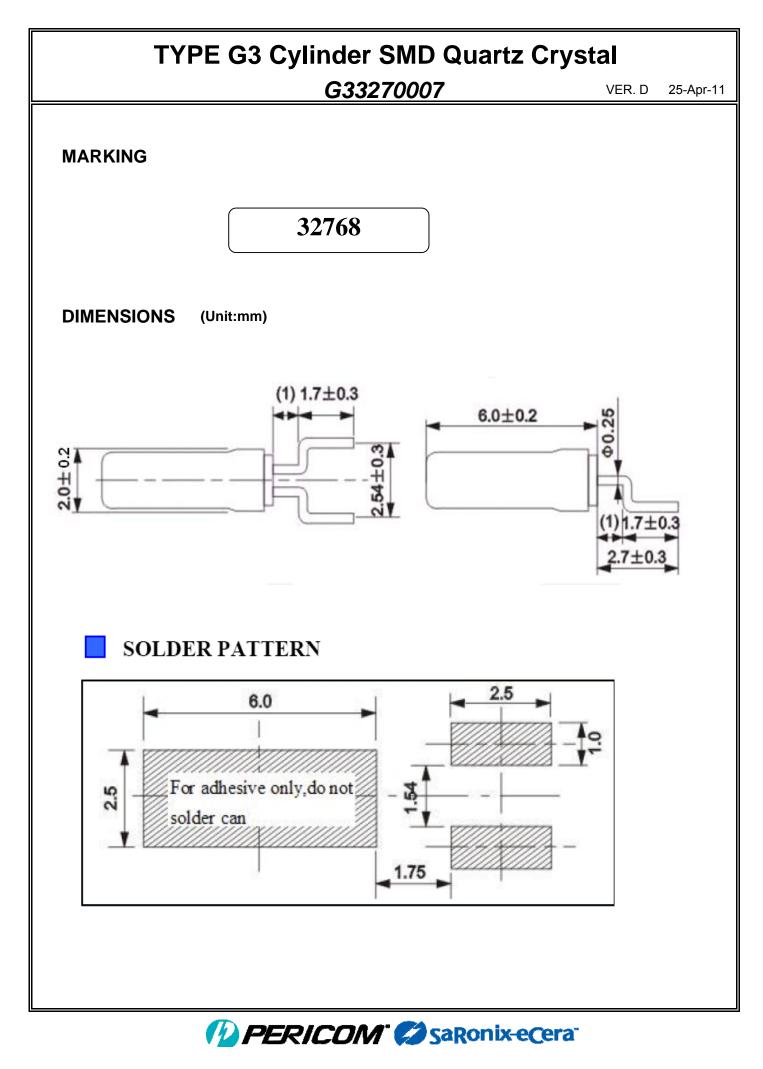
TYPE G3 Cylinder SMD Quartz Crystal

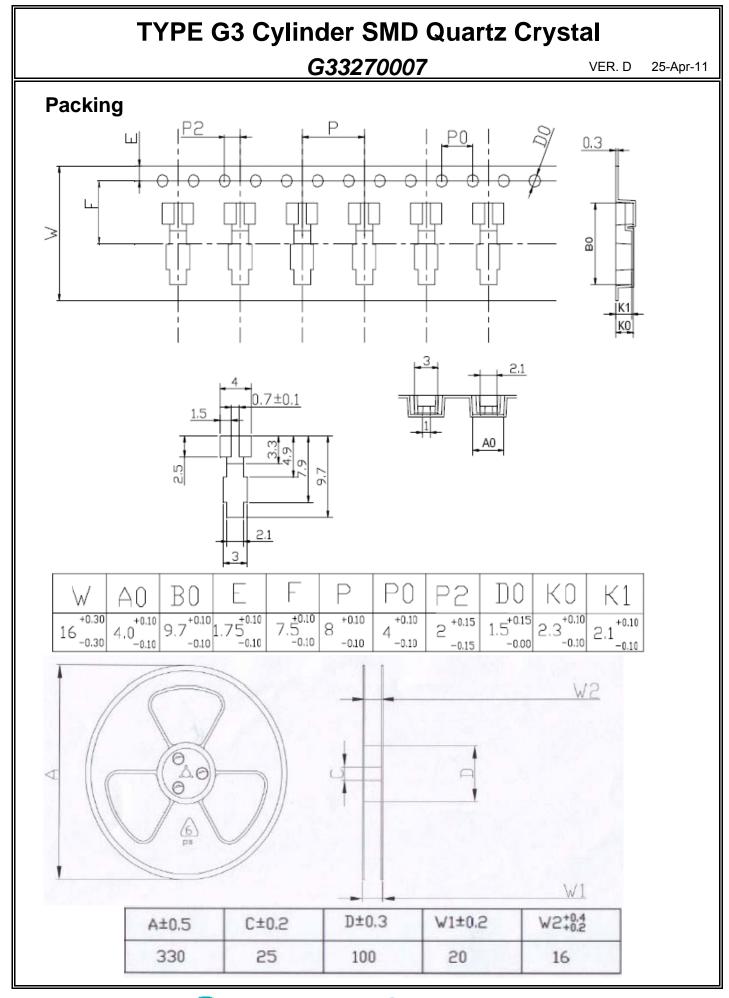
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VER. D 25-Apr-11

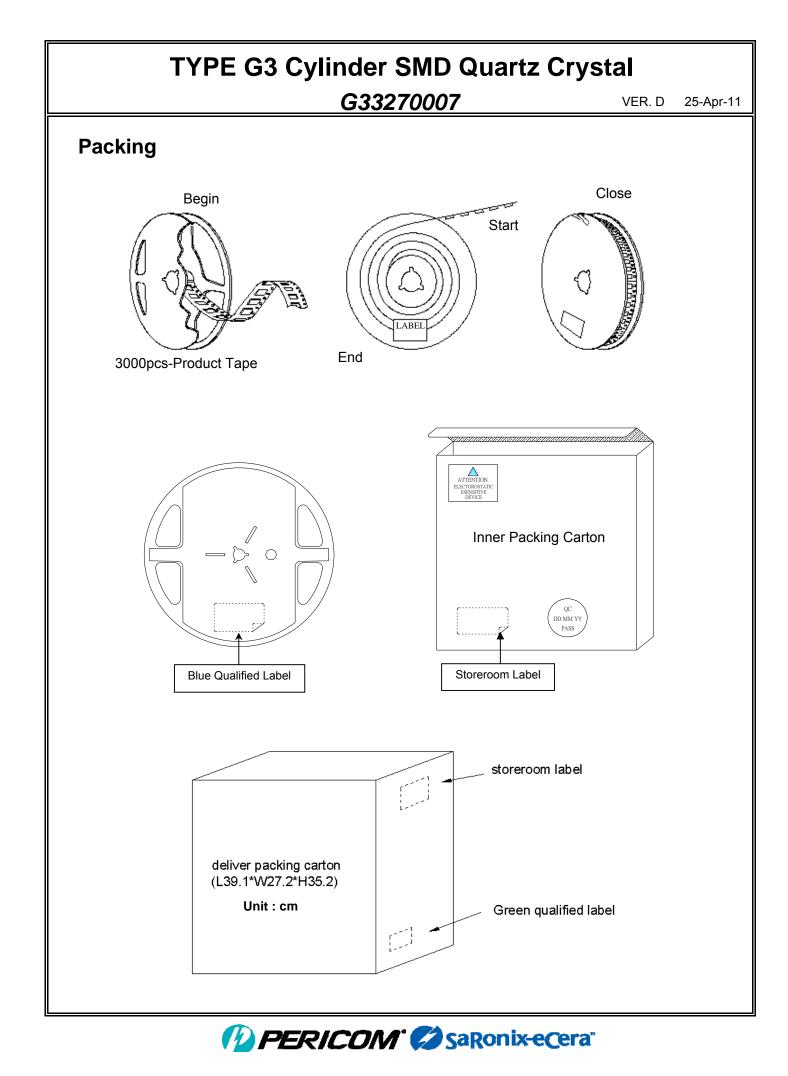
5	Low temperature	240 hours at -40°∁ ±2°∁	Frequency Change:±10ppm Max.
		After 1-2hours past at room temperature from following	Resistance Change:±15% or 5kohm Max.
		test.	
6	Humidity	240 hours at +85° C ±2° C ,relative humidity 90-95%	Frequency Change:±10ppm Max.
		After 1-2hours past at room temperature from following	Resistance Change:±25% or 10kohm Max
		test.	
7	Temperature cycle	After supplying the following temperature cycle	Frequency Change:±10ppm Max.
		(50cycles)	Resistance Change:±25% or 10kohm Max
		+100deg.C +25deg.C -40deg.C -1CYCLE	
8	Solderability	Dip the leads of crystal units into the solution (7-10%)	The dipped surface of the leads should be
		of rosin 3±0.5s,then dip it into the tank 5-10s.	at least 95% covered withcontinuous new
		Temperature of solder melted tank is $245^{\circ}C \pm 5^{\circ}C$	solder coating
9	Reflow soldering	The REFLOW SOLDERING PROFILE of Fig.1 for	After 24h past from frequency test,
		TMXLi-206F families.	Frequency Change:±10ppm Max.
		REFLOW SOLDERING PROFILE	Resistance Change:±25% or 10kohm Max
			Notice:
		260°C peak	$1 \cdot \text{Using the infrared lamp at soldering}$
		250 - 220°C - 10±1sec	process may cause uneven temperature
			rise on plastic surface of the parts, so that
		150 - 50±10sec	please keep the package temperature
		50 ± 100 $50 \pm$	within left conditions.
		the PCB surface temperature.	$2 \cdot DO$ NOT dip the plastic part into
		50 100 150 200 250 Time(sec.)	solder.
	1	rino(eou.)	







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