imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



	COM [®] S	aRonix-eCera [®] Poration	
SPECIFICAT	TON FOR	APPROVAL	
CUSTOMER			
NOMINAL FREQUEI	NCY32.	768 KHz	
HOLDER TYPE	TYPE G3 Cylind	er SMD Quartz Crystal	
SPEC. NO. (P/N)	G3	3270010	
CUSTOMER P/N			
ISSUE DATE	Ma	Mar.2,2011	
VERSION		Α	
APPROVED	PREPARED	QA	
Brenda	Niffi Lu	fillin	
APPROVED BY	CUSTOMER :	AVL Status	
Please return one copy	with approval to PSE-TW		
PSE Technology Con No.2, Tzu-Chiang 5th Rd, Chu Chung Li City, Taoyuan County TEL: 886-3-451-8888 FAX: 886-3-461-3865 http://www.saronix-ecera.com.	ng Li Industrial Park, *Ro y, Taiwan (R.O.C.) *HI *RI	oHS Exception ^E -Halogen Free EACH Compliant nductor Corporation ***	

TYPE G3 Cylinder SMD Quartz Crystal

G33270010

VER. A 2-Mar-11

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Mar.2,2011			Initial Release	

PERICOM Saronix-eCera

TYPE G3 Cylinder SMD Quartz Crystal

G33270010

VER. A 2-Mar-11

ELECTRICAL SPECIFICATIONS

SRe Part Number : G33270010

Parameters	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	32.768	KHz	
Mode of Oscillation	MO	Fundamental		+2° X-Cut
Load Capacitance	CL	6	pF	Typical
Calibration Tolerance		± 20	ppm	at 25℃ ± 5℃
Operating Temperature Range	TR	-10~60	°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.	



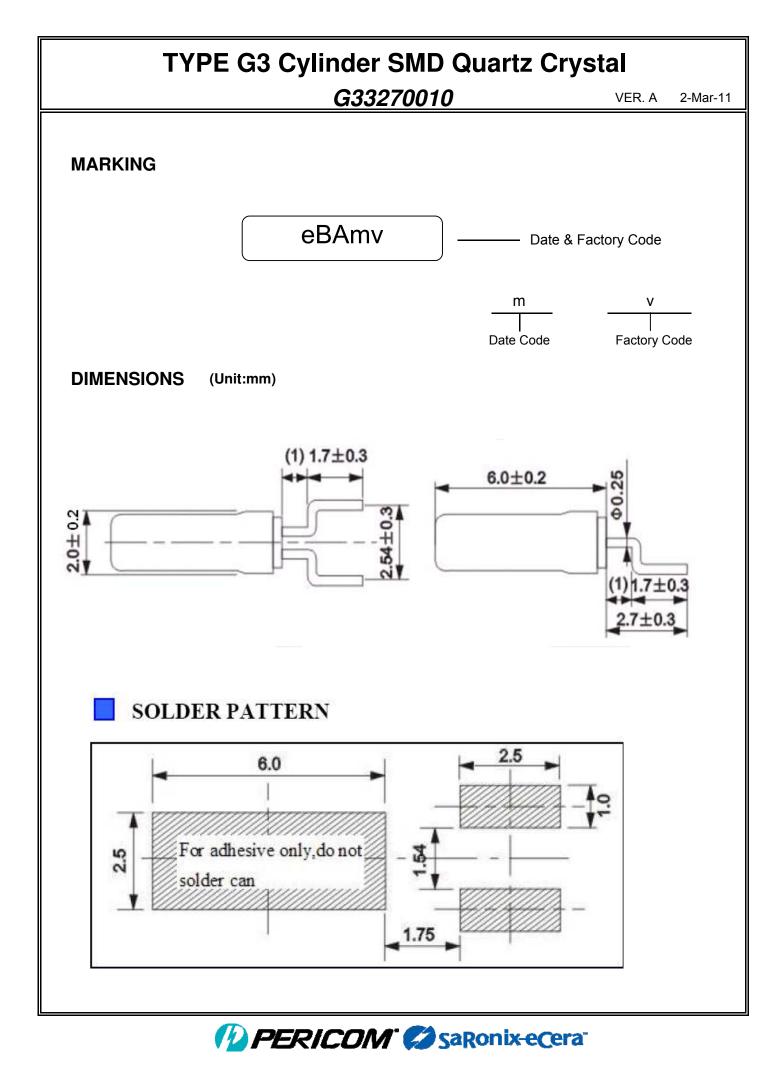
TYPE G3 Cylinder SMD Quartz Crystal

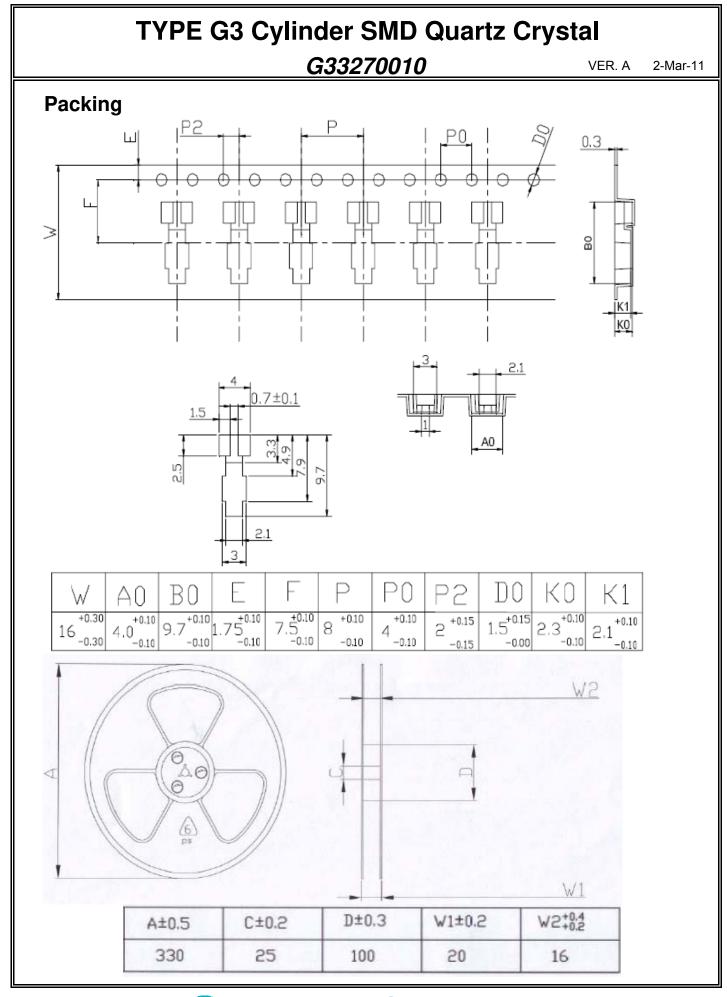
G33270010

VER. A 2-Mar-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	
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 $245^{\circ}C\pm5^{\circ}C$	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
		REFLOW SOLDERING TROFILE	Notice:
		260°C peak.	1 Using the infrared lamp at soldering
		250 - 250±10°C - 10±1sec	process may cause uneven temperature
		200 170±10°C	rise on plastic surface of the parts,so that
		150 150 100 50±10sec 120±20sec 50±10sec	please keep the package temperature
		0 100	within left conditions.
		50 Note: the temperature is the PCB surface temperature.	2、DO NOT dip the plastic part into
		50 100 150 200 250 Time(sec.)	solder.







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