

# **PSE Technology Corporation**

### SPECIFICATION FOR APPROVAL

CUSTOMER	·
NOMINAL FREQUENCY	32.768 KHz
HOLDER TYPE	TYPE G3 Cylinder SMD Quartz Crystal
SPEC. NO. ( P/N )	G33270010
CUSTOMER P/N	
ISSUE DATE	Mar.2,2011
VERSION	Α

APPROVED	PREPARED	QA
Brenda	Nikhi Lu	lillin
APPROVED BY	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 \*\*\*

G33270010

VER. A 2-Mar-11

### **VERSION HISTORY**

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



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	МО	Fundamental		+2° X-Cut
Load Capacitance	CL	6	pF	Typical
Calibration Tolerance		± 20	ppm	at 25°ℂ ± 5°ℂ
Operating Temperature Range	TR	-10~60	°C	
Drive Level	DL	1	$\mu$ W	Max.
Series Resonant Resistance	CI/RR	50	ΚΩ	Max.
Temperature Coefficient	K	-0.035	ppm/°C <sup>2</sup>	Typical
Aging		± 3	ppm	Max 1st year
Insulation Resistance		500	ΜΩ	at DC 100V ± 15V

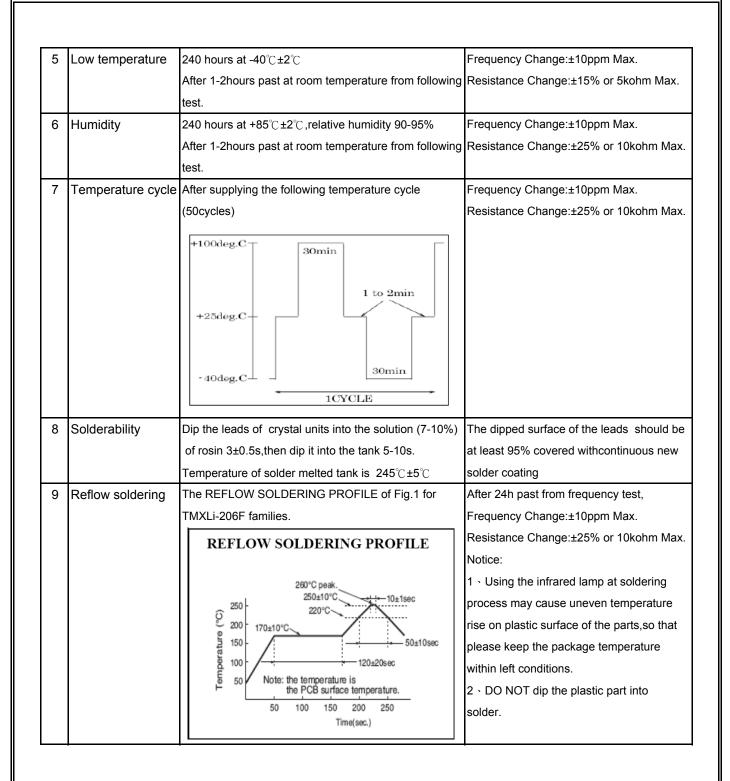
#### Reliability (Mechanical and Environmental Endurance)

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



G33270010

VER. A 2-Mar-11

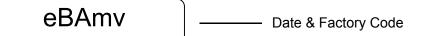


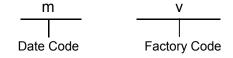


G33270010

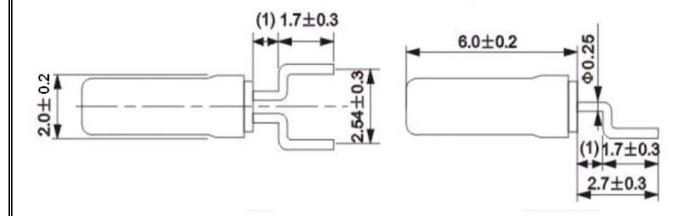
VER. A 2-Mar-11

#### **MARKING**

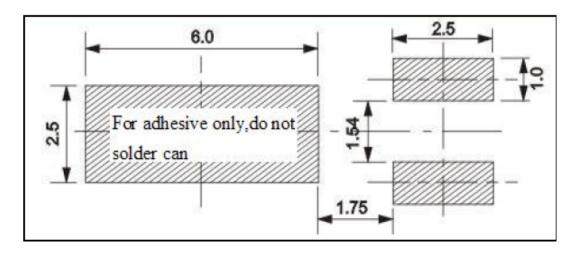




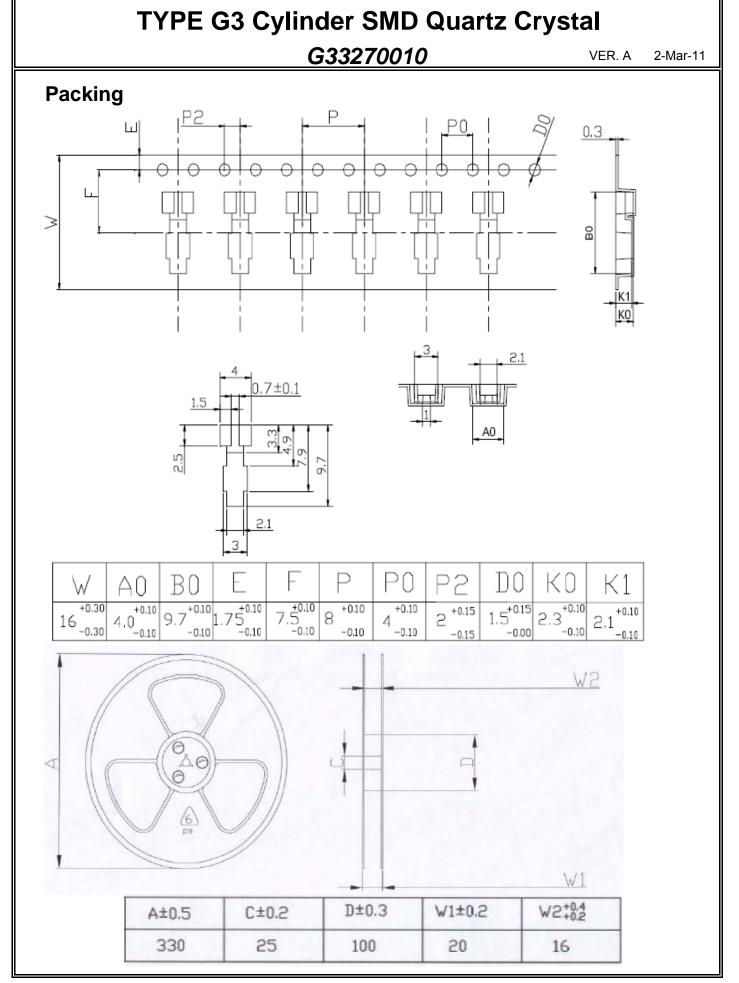
#### **DIMENSIONS** (Unit:mm)



### SOLDER PATTERN









G33270010

VER. A 2-Mar-11

### **Packing**



