

PSE Technology Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	32.768 KHz
PRODUCT TYPE	G2 Series Cylinder Through Hole Quartz Crystal
SPEC. NO. (P/N)	G23270006
CUSTOMER P/N	
ISSUE DATE	Mar.24,2011
VERSION	D

APPROVED	PREPARED	QA
Brenda	Niklai Lu	lillin
APPROVED BY CUSTOMER:		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 ***

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G2 Series 2.0x6.0mm Cylinder Through Hole Quartz Crystal G23270006 VER. D 24-Mar-11

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Aug.21,2009			Initial Release	
В	May.11,2010			Revise Format	
С	Sep.23,2010			New Logo	
D	Mar.24,2011			Revised format	



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ELECTRICAL SPECIFICATIONS

SRe Part Number: G23270006

Parameters	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	32.768	KHz	
Mode of Oscillation	МО	Fundamental		+2° X-Cut
Drive Level	DL	1	μ W	Max.
Load Capacitance	CL	6	pF	Typical
Frequency Tolerance	FT	±20	ppm	at 25℃ ±5℃
Operating Temperature Range	TR	-10~60	°C	
Equivalent Series Resistance	ESR	40	ΚΩ	Max.
Temperature Coefficient	K	-0.035	ppm/°C2	Typical
Aging		± 3	ppm	Max 1st year
Insulation Resistance	_	500	$M\Omega$	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:5kohm 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:5kohm Max.
3	Leakage	Put crystal units into a hermetic container and	Leakage: 1x10⁻ 8Pa⋅m1/s Max.
		Helium for 0.5-0.6Mpa, and keep it for 1h;	
		Check the leakage by a Helium leak detector	



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G2 Series 2.0x6.0mm Cylinder Through Hole Quartz Crystal

G23270006

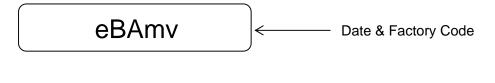
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4	Lead Strength	The crystal lead with the 0.9kg(9N) power (keep it for	The crystal lead is not abnormity
	(DIP)	30s±5s) and bend the crystal lead 90° with 0.45kg	
		power and two times	
5	High Temperature	The crystal units shall be put in somewhere for 2 hrs	Frequency Change: ±10ppm Max.
	Endurance	at temperature of 85°C±2°C, then keep it for 1 to 2 hrs	Resistance Change:5kohm Max.
		under room temperature.	
6	Low Temperature	The crystal units shall be put in somewhere for 2 hrs	
	Endurance	at temperature of -25℃, then keep it for 1 to 2 hrs	
		under room temperature.	
7	Humidity	The crystal units shall be put in somewhere at 40°C	
	Endurance	in relative humidity of 90-95% for 48 hrs, then keep	
		it for one or two hours under room temperature.	
8	Temperature	Temperature shift from low(-40°C) to high(100°C, keep	
	Cycle	30 mins), satisfy high(100°ℂ) to low(-40°ℂ, keep	
		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
		density: 5%) at the temperature of 35 $^\circ$ C for 96 hrs.	and soldering is good.
		Then clean it with water and dry its surface.	Frequency Change: ±10ppm Max.
			Resistance Change:5kohm Max.

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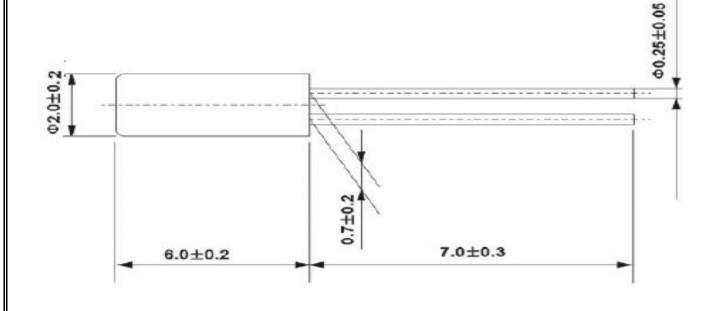
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MARKING





DIMENSIONS (Unit:mm)





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G2 Series 2.0x6.0mm Cylinder Through Hole Quartz Crystal

VER. D

G23270006 24-Mar-11 **PACKING** Quantity for Each Bag: 1000 pcs Storeroom Label **Deliver Packing Carton** (L25.5*W25.5*H18) Green Qualified Label



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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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