





SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	32.768 KHz
PRODUCT TYPE	TYPE G4 SMD X'TAL
SPEC. NO. (P/N)	G43270010
CUSTOMER P/N	
ISSUE DATE	May.24,2018
VERSION	E

APPROVED	PREPARED	QA
Brenda	Nikhi Lu	Don't Land

Diodes Incorporated

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TEL: 886-3-451-8888 FAX: 886-3-461-3865 https://www.diodes.com *RoHS Exception

*HF-Halogen Free

*REACH Compliant

G43270010

VER. E 24-May-18

VERSION HISTORY

Version No.	Version Date	Description	Notes
Α	May.17,2009	Initial Release	
В	Sep.10,2012	Changed dimension C: from 8.0±0.2mm to 8.2±0.2mm	
С	Jul.15,2013	Updated Shunt Capacitance from 1.6pF typ to1.4pF±25%	
D	Jun.20,2014	Updated Dimensions	
E	May.24,2018	Updated logo	

G43270010

VER. E 24-May-18

ELECTRICAL SPECIFICATIONS

SRe Part Number: G43270010

Parameters	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	32.768	KHz	
Frequency Tolerance	FT	± 10	ppm	at 25°C ± 5°C
Load Capacitance	CL	12.5	pF	Тур.
Drive Level	DL	1	μW	Max.
Equivalent Series Resistance	ESR	50	ΚΩ	Max.
Temperature Coefficient	K	-0.035	ppm/°C ²	Тур.
Shunt Capacitance	C0	1.4	pF	±25%
Operating Temperature Range	TR	-40~85	°C	
Storage Temperature Range		-55~85	°C	
Aging		± 5	ppm	Max 1st year
Insulation Resistance		500	ΜΩ	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: ±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	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		



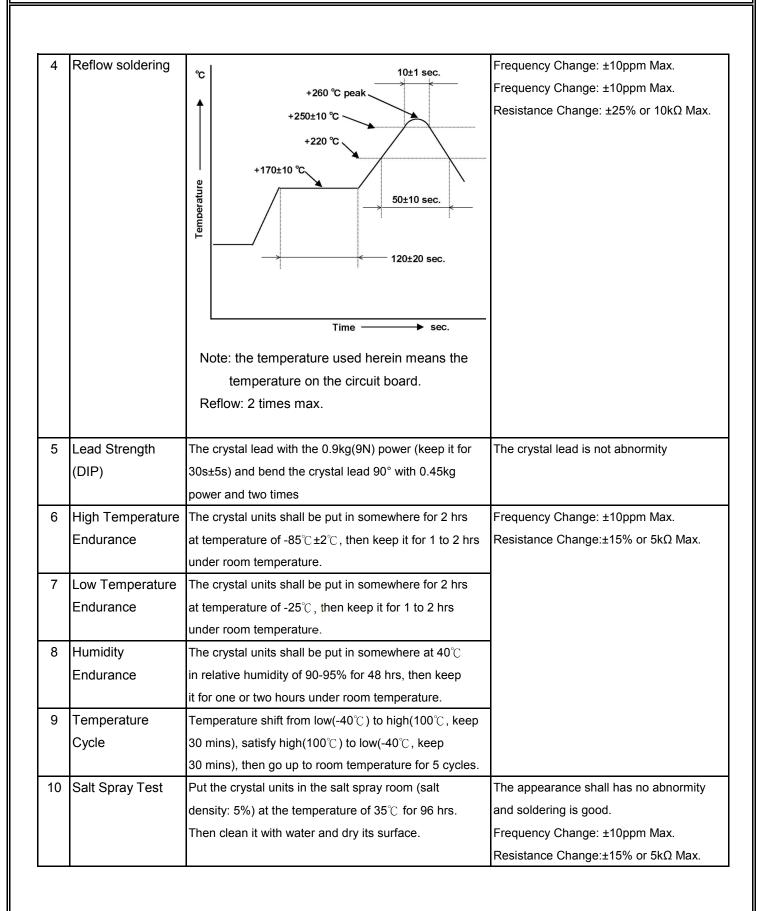
E0-R-4-014 Rev.F

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G43270010

VER. E 24-May-18



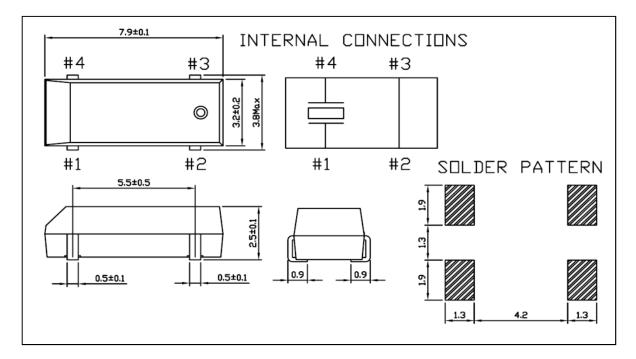
G43270010

VER. E 24-May-18

Marking

32768

Dimensions (Units: mm)



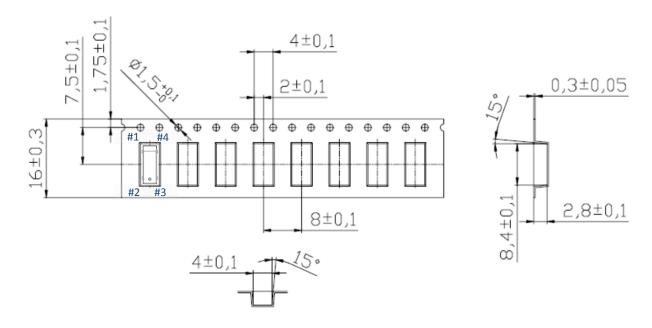
G43270010

VER. E 24-May-18

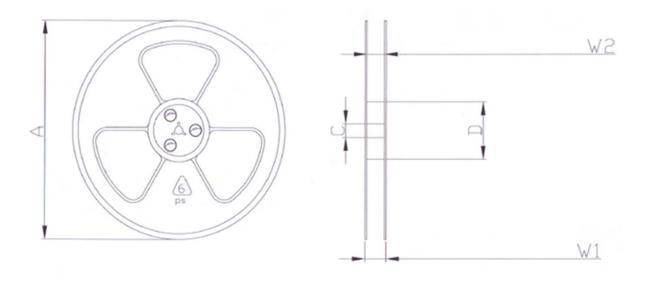
TAPE AND REEL SPECIFICATION

- 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



A ± 0.5	C ± 0.2	D ± 0.3	W1 ± 0.2	W2 + 0.4 + 0.2
330	25	100	20	16

单击下面可查看定价,库存,交付和生命周期等信息

>>Diodes Incorporated(达迩科技(美台))