



## SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	32.768 KHz
PRODUCT TYPE	TYPE G4 SMD X'TAL
SPEC. NO. ( P/N )	G43270016
CUSTOMER P/N	
ISSUE DATE	Jun.13,2018
VERSION	D

APPROVED	PREPARED	QA
Brenda	Kelly	Dong Yang

## **Diodes Incorporated**

No.2, Ziqiang 5th Rd., Zhongli Industrial Park, Zhongli Dist., Taoyuan City 32063, Taiwan (R.O.C.)

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

\*HF-Halogen Free

\*REACH Compliant

G43270016

VER. D 13-Jun-18

## **VERSION HISTORY**

Version No.	Version Date	Description	Notes
А	Oct.7,2009	Initial Release	
В	Mar.25,2011	Revised format	
С	Nov.9,2012	Changed mechanical drawing	
D	Jun.13,2018	Updated logo	

### G43270016

VER. D 13-Jun-18

#### **ELECTRICAL SPECIFICATIONS**

SRe Part Number: G43270016

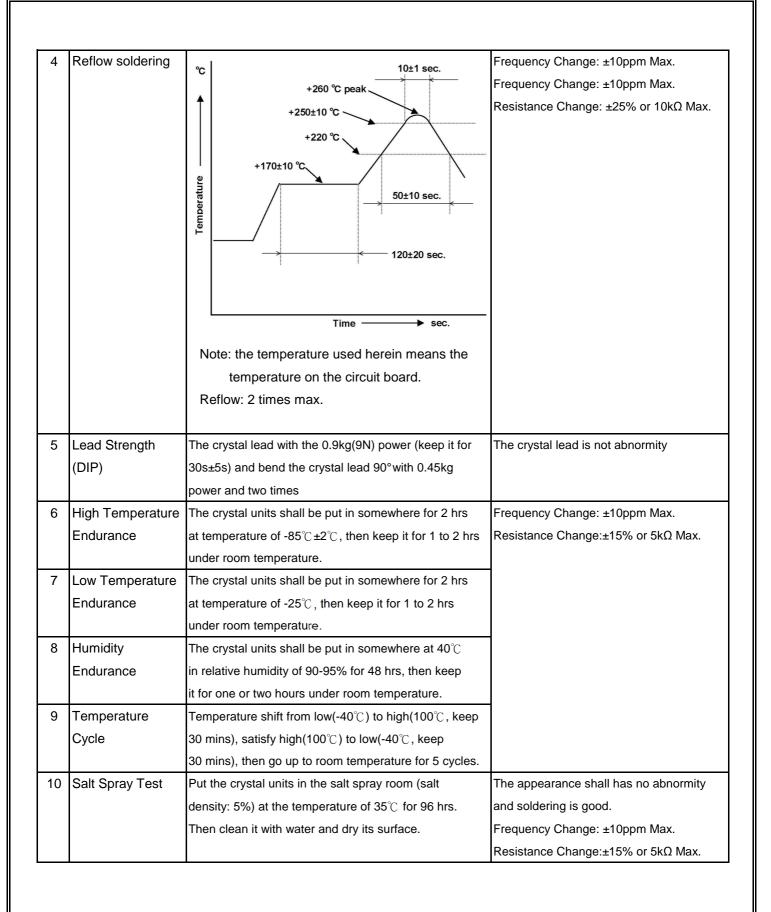
Parameters	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	32.768	KHz	
Frequency Tolerance	FT	± 20	ppm	at 25°C ± 5°C
Load Capacitance	CL	12.5	pF	Тур.
Drive Level	DL	1	μW	Max.
Equivalent Series Resistance	ESR	60	ΚΩ	Max.
Temperature Coefficient	K	-0.042	ppm/℃ <sup>2</sup>	Тур.
Shunt Capacitance	C0	2	pF	Max.
Motional Capacitance	C1	2	fF	Тур.
Operating Temperature Range	TR	-40~85	C	
Storage Temperature Range		-55~85	C	
Aging		± 3	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	

G43270016

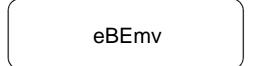
VER. D 13-Jun-18



G43270016

VER. D 13-Jun-18

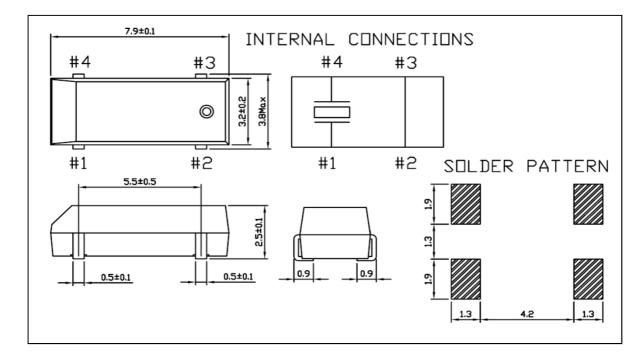
### Marking







### **Dimensions** (Units: mm)



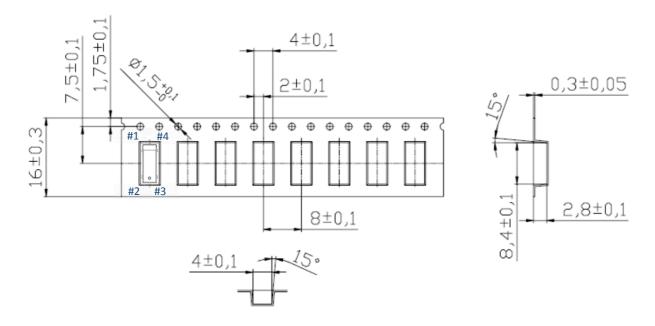
G43270016

VER. D 13-Jun-18

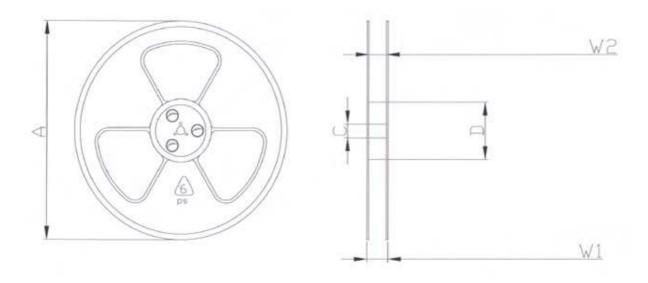
#### TAPE AND REEL SPECIFICATION

- 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))