<b>DECDES</b>	A Product Line of Diodes Incorporated	PERICOM		
SPECIFICAT		-		
CUSTOMER				
NOMINAL FREQUENC	Y20.000000 MHz			
PRODUCT TYPE	TYPE FW 2.0x1.6	SEAM SEALED CRYSTAL		
SPEC. NO. ( P/N )	FW2000016Q			
CUSTOMER P/N				
ISSUE DATE	June 4, 2018			
VERSION		Α		
APPROVED	PREPARED	QA		
Brenda	Nikbi Lu	Don't Jand		
Diodes Incorporated No.2, Ziqiang 5th Rd., Zhongli Indu Zhongli Dist., Taoyuan City 32063, TEL: 886-3-451-8888 FAX: 886-3-461-3865 https://www.diodes.com	Taiwan (R.O.C.) *RoHS *HF-Ha *REAC	e Compliant Ilogen Free H Compliant Q200 Compliant		

## FW2000016Q

VER. A 4-Jun-18

## **VERSION HISTORY**

Version No.	Version Date	Description	Notes
А	Jun.4,2018	Initial Release	



### FW2000016Q

VER. A 4-Jun-18

### **ELECTRICAL SPECIFICATIONS**

ltem	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	20.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	10	pF	
Calibration Tolerance	FL	±15	ppm	at 25°C±3°C
Operating Temperature Range	TR	-40 to +125	°C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±50	ppm	Reference to the Frequency at 25°C
Operating Drive Level		10	μW	
Maximum Drive Level		200	μW	Max.
Equivalent Series Resistance	ESR	100	Ω	Max
Shunt Capacitance	C0	5	pF	Max
Aging at 25°C		±3	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	MΩ	Min

\* This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).



### FW2000016Q

### **AEC-Q200 RELIABILITY TEST SPECIFICATIONS:**

### 1. Initial

- 1.1 Physical Dimensions: JESD22, Method JB1-100
- 1.2 External Visual: MIL-STD-883, Method 2009
- 1.3 Freq. Vs. Temperature: Per Specification/Datasheet

#### 2. Mechanical

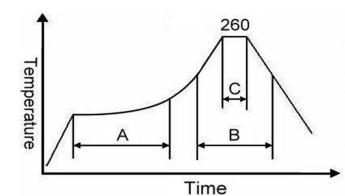
- 2.1 Mechanical Shock: MIL-STD-202 Method 213
- 2.2 Vibration: MIL-STD-202 Method 204
- 2.3 Solderability: J-STD-002
- 2.4 Board Flex: AEC Q200-005
- 2.5 Terminal Strength (SMD): AEC Q200-006

#### 3.Environmental

- 3.1 Temp Cycle: JESD22, Method JA-104
- 3.2 Resistance to Solder Heat: MIL-STD-202 Method 210
- 3.3 High Temperature Operating Life: MIL-STD-202, Method 108
- 3.4 High Temp Exposure: MIL-STD-202, Method 108
- 3.5 High Temp & High Humidity: MIL-STD-202, Method 103
- 3.6 Thermal Shock: MIL-STD-202, Method 107

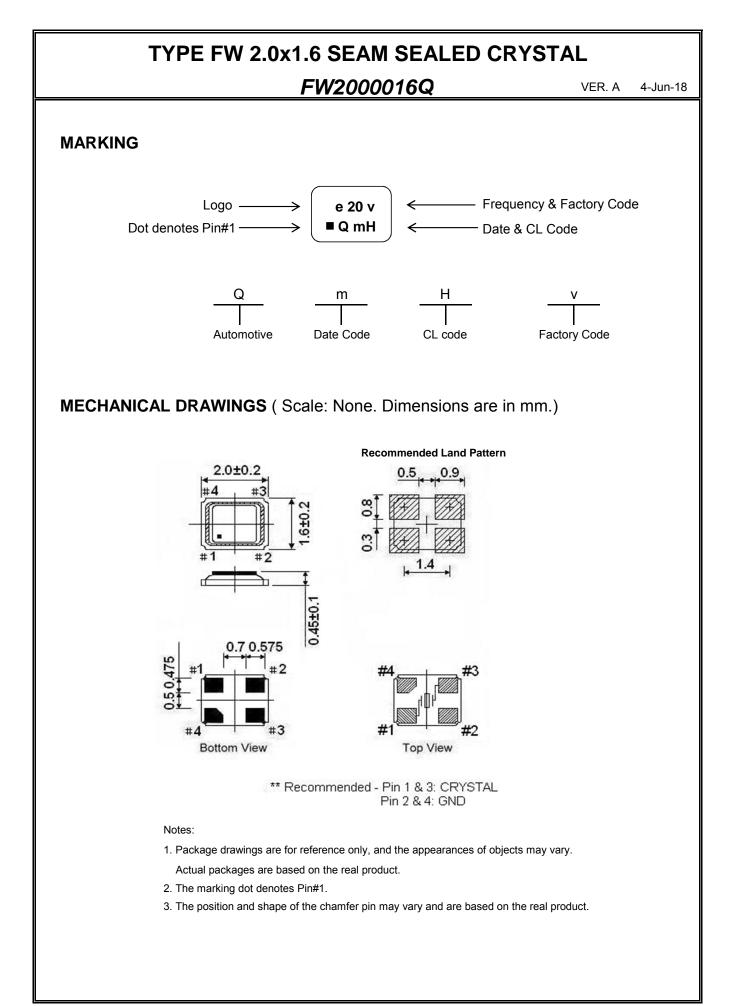
### SUGGESTED IR REFLOW PROFILE

\*As per IPC-JEDEC J-STD-020D



	Stage	Temperature	Time
А	Preheat	150~200°C	60~120 Sec
в	Primary Heat	217°C	60~150 Sec
С	Peak	260°C	10 Sec

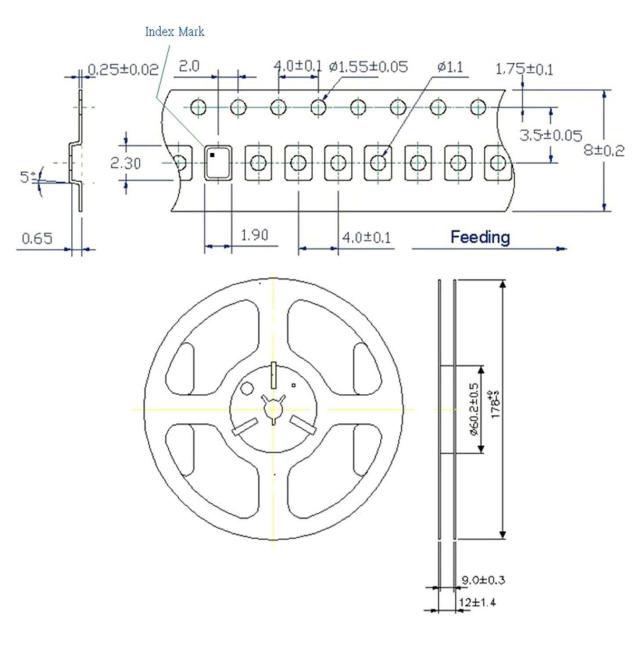






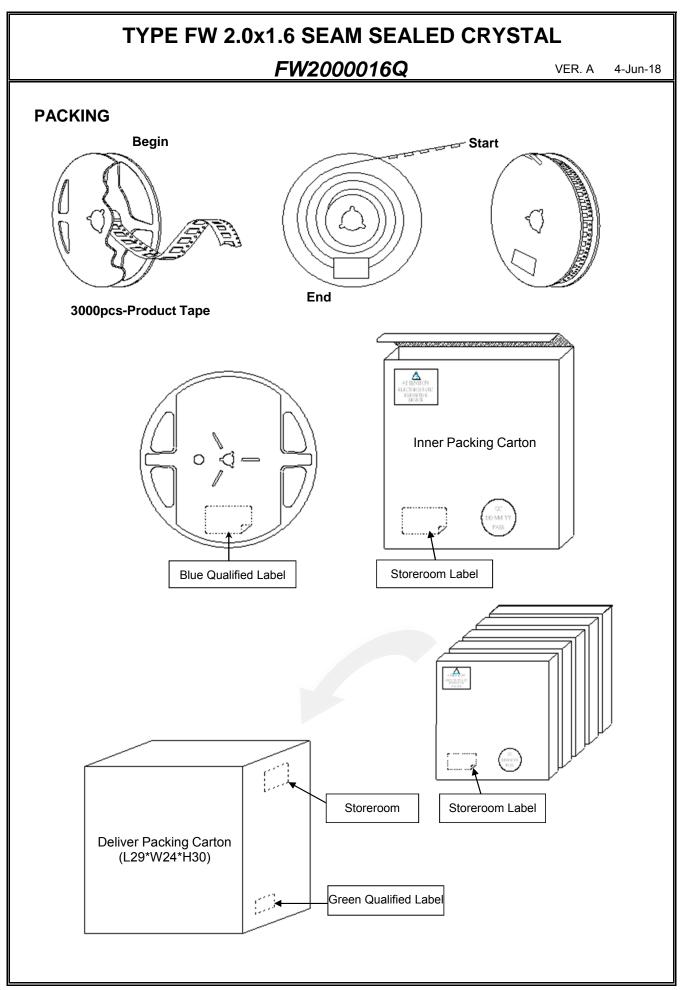
### FW2000016Q

Tape & Reel



- 1. 230mm minimum leafer which consist of carrier and/or tape followed by a minimum of 160mm of empty carrier tape sealed with cover tape.
- 2. 160mm minimum trailer of empty carrier tape sealed with cover tape.





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