



SPECIFICATION FOR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

25.000000 MHz

TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL

SPEC. NO. (P/N)

PRODUCT TYPE

CUSTOMER P/N

ISSUE DATE

VERSION

FH2500081Q

April 16, 2018

А

APPROVED	PREPARED	QA
Brenda	Nikbi Lu	Dong Jang

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

*Pb-free

- *RoHS Compliant
- *HF-Halogen Free
- ***REACH Compliant**
- *AEC-Q200 Compliant

FH2500081Q

VER. A 16-Apr-18

VERSION HISTORY

Version No.	Version Date	Description	Notes
A	Apr.16,2018	Initial Release	



FH2500081Q

VER. A 16-Apr-18

ELECTRICAL SPECIFICATIONS

ltem	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	25.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	8	pF	
Calibration Tolerance	FL	±20	ppm	at 25°C±3°C
Operating Temperature Range	TR	-40 to +105	°C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±30	ppm	Reference to the Frequency at 25°C
Operating Drive Level		50	μW	
Maximum Drive Level		100	μW	
Equivalent Series Resistance	ESR	50	Ω	Мах
Shunt Capacitance	C0	5	pF	Мах
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).

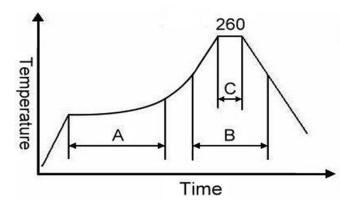


FH2500081Q

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

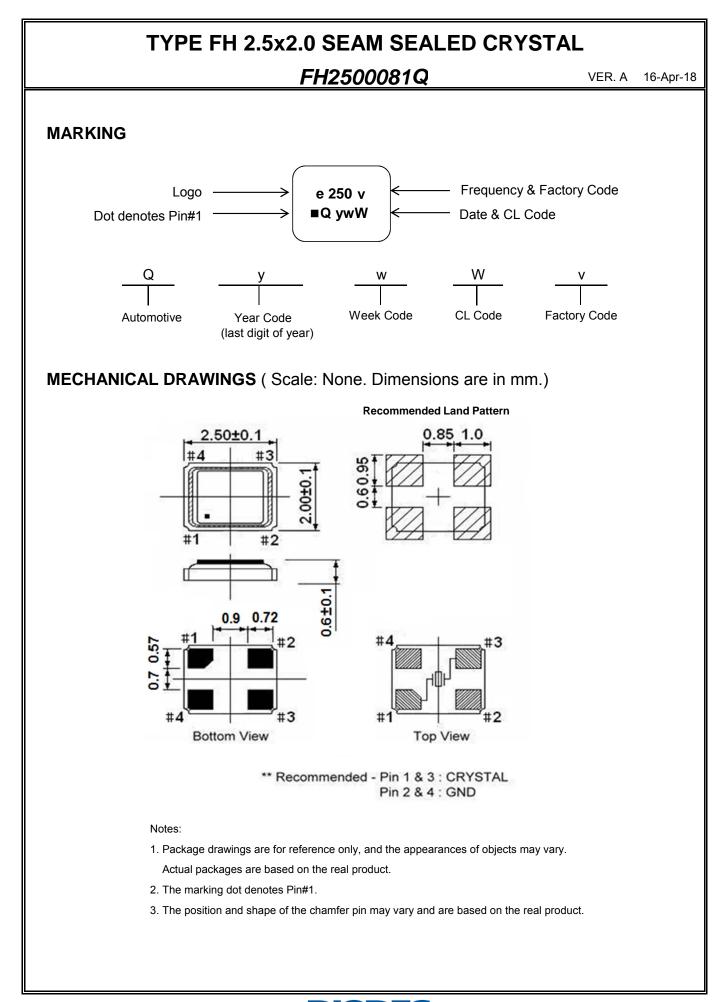
SUGGESTED IR REFLOW PROFILE

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



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



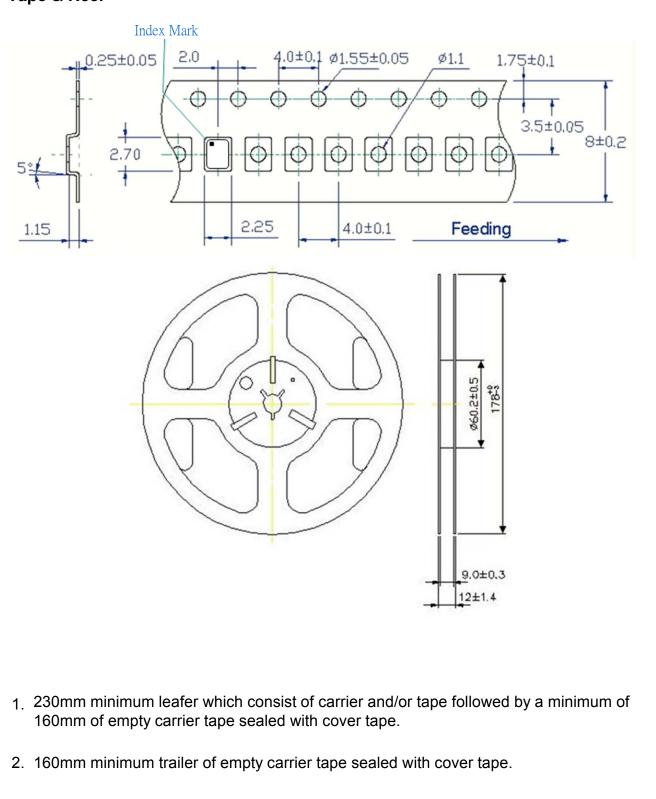




FH2500081Q

VER. A 16-Apr-18

Tape & Reel





TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL FH2500081Q VER. A 16-Apr-18 PACKING Begin Start End 3000pcs-Product Tape rensena como como como como como como de la Δ Inner Packing Carton 0 Blue Qualified Label Storeroom Label Δ. Storeroom Label Storeroom Label Deliver Packing Carton (L29*W24*H30) Green Qualified Label

