

Diodes Incorporated



SPECIFICATION FOR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

26.000000 MHz

TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL2600181Q

SPEC. NO. (P/N)

PRODUCT TYPE

CUSTOMER P/N

ISSUE DATE

VERSION

В

March 13, 2018

APPROVED	PREPARED	QA
Brenda	Kelly	Down 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

TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL2600181Q

VER. B 13-Mar-18

VERSION HISTORY

Version No.	Version Date	Description	Notes	
А	Oct.31,2014	Initial Release		
В	Mar.13,2018	Updated logo		



TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL2600181Q

VER. B 13-Mar-18

ELECTRICAL SPECIFICATIONS

ltem	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	26.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	8	pF	
Calibration Tolerance	FL	±10	ppm	at 25℃±3℃
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℃
Operating Drive Level		10	μW	
Maximum Drive Level		100	μW	
Equivalent Series Resistance	ESR	60	Ω	Max
Shunt Capacitance	C0	5	pF	Max
Aging at 25℃		±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).



TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL2600181Q

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

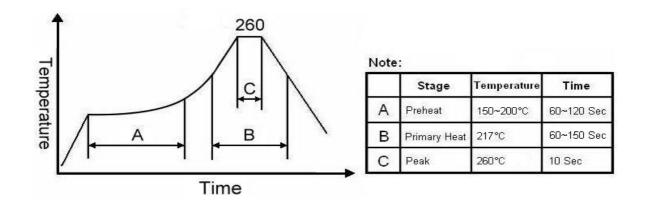
- 2.1 Mechanical Shock: MIL-STD-202 Method 213
- 2.2 Vibration: MIL-STD-202 Method 204
- 2.3 Solderability: J-STD-002
- 2.4 Board Flex: AEC Q200-005
- 2.5 Terminal Strength (SMD): AEC Q200-006

3.Environmental

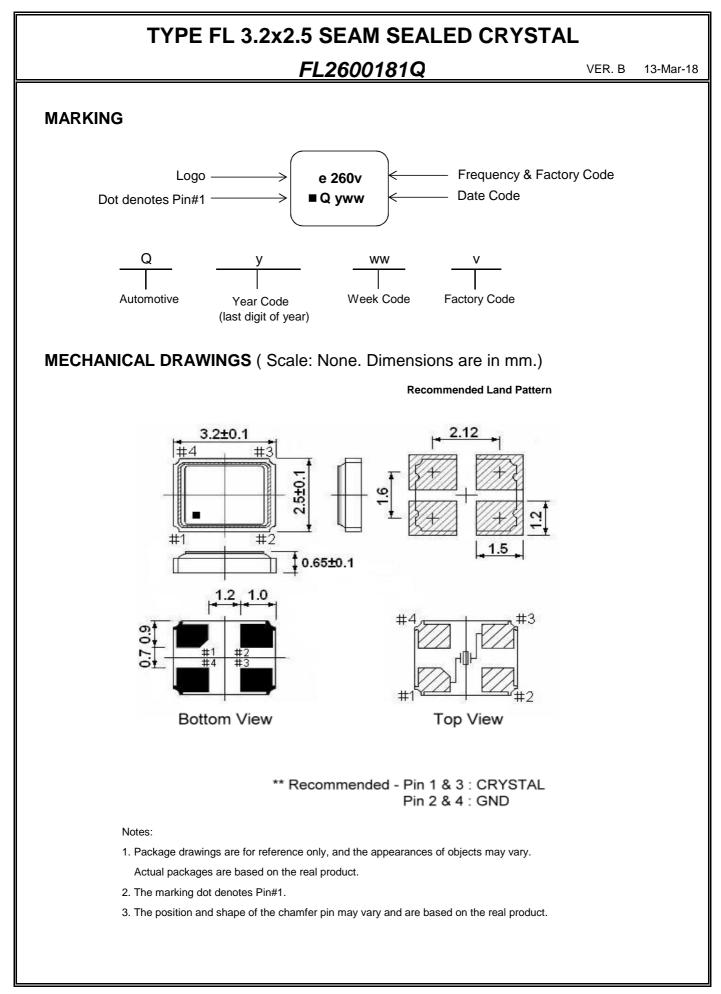
- 3.1 Temp Cycle: JESD22, Method JA-104
- 3.2 Resistance to Solder Heat: MIL-STD-202 Method 210
- 3.3 High Temperature Operating Life: MIL-STD-202, Method 108
- 3.4 High Temp Exposure: MIL-STD-202, Method 108
- 3.5 High Temp & High Humidity: MIL-STD-202, Method 103
- 3.6 Thermal Shock: MIL-STD-202, Method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

SUGGESTED IR REFLOW PROFILE

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



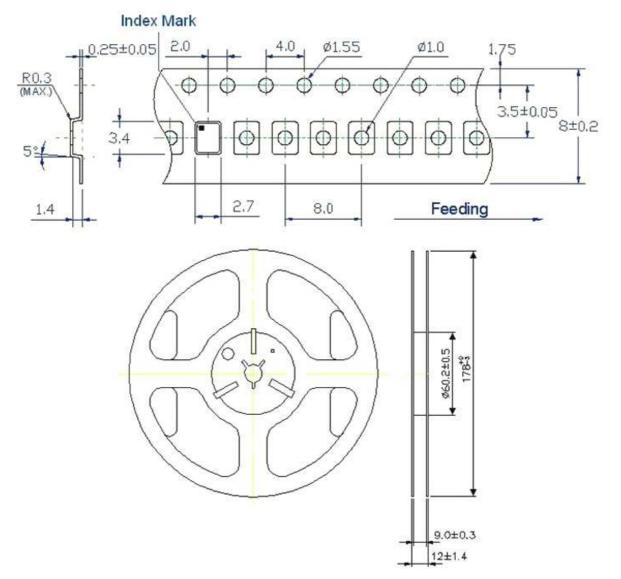






TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL FL2600181Q VER. B 13-Mar-18

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.



