

Diodes Incorporated



SPECIFICATION FOR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

30.000000 MHz

TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL3000075Q

SPEC. NO. (P/N)

PRODUCT TYPE

CUSTOMER P/N

ISSUE DATE

VERSION

В

September 3, 2018

APPROVED	PREPARED	QA
Brenda	Kelly	Dong Jang

Diodes Incorporated

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

TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL3000075Q

VER. B 3-Sep-18

VERSION HISTORY

Version No.	Version Date	Description	Notes	
А	Apr.21,2017	Initial Release		
В	Sep.3,2018	Updated logo		
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FL3000075Q

VER. B 3-Sep-18

ELECTRICAL SPECIFICATIONS

ltem	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	30.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	10	pF	
Calibration Tolerance	FL	±30	ppm	at 25℃±3℃
Operating Temperature Range	TR	-40 to +105	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	40	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

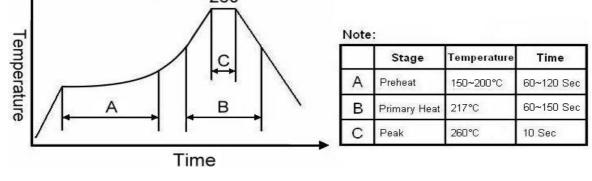
💥 This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).



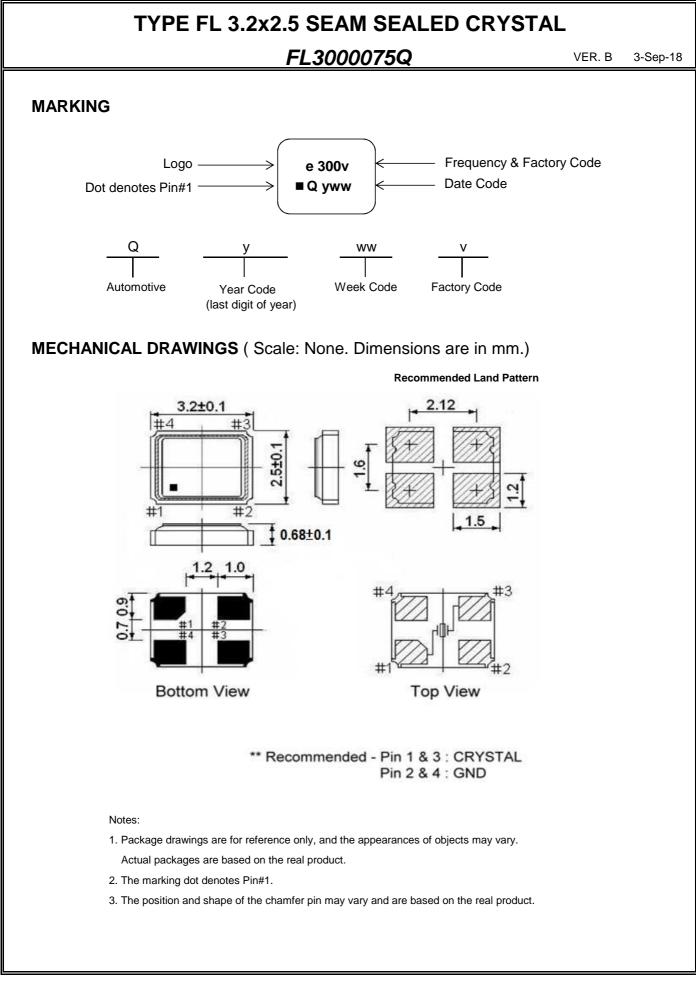
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AEC-Q200 RELIABILITY TEST SPECIFICATIONS: 1. Initial 1.1 Physical Dimensions: JESD22, Method JB1-100 1.2 External Visual: MIL-STD-883, Method 2009 1.3 Freq. Vs. Temperature: Per Specification/Datasheet 2. Mechanical 2.1 Mechanical Shock: MIL-STD-202 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 260



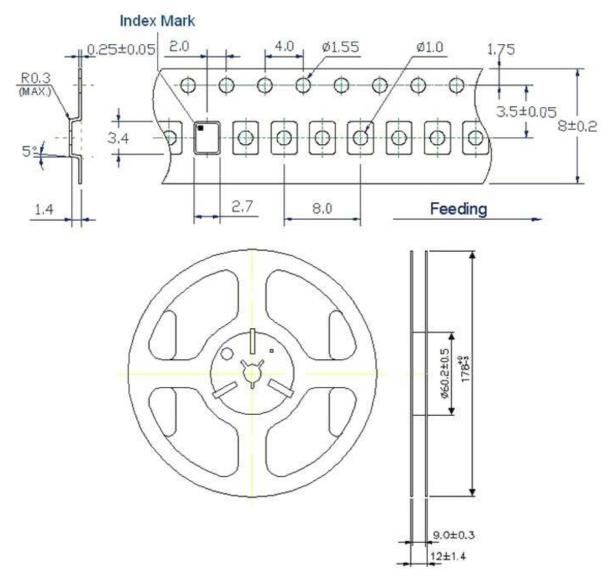






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Tape & Reel



- 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.



