

A Product Line of **Diodes Incorporated** 



# SPECIFICATION FOR APPROVAL

**CUSTOMER** 

NOMINAL FREQUENCY

25.000000 MHz

HOLDER TYPE

TYPE FY 5.0x3.2 SEAM SEALED CRYSTAL

SPEC. NO. (P/N)

**CUSTOMER P/N** 

**ISSUE DATE** 

VERSION

FY2500074

February 9, 2018

С

APPROVED	PREPARED	QA
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\*Pb-free

- \*RoHS Compliant
- \*HF-Halogen Free
- \*REACH Compliant

TYPE FY 5.0x3.2 SEAM SEALED CRYSTAL

### **FY2500074** VER. C 9-Feb-18

## **VERSION HISTORY**

Version No.	Version Date	Description	Notes
A	Jul.8,2009	Initial Release	
В	May.13,2011	Updated Suggested IR Reflow Profile & Format	
С	Feb.9,2018	Updated logo	



## **TYPE FY 5.0x3.2 SEAM SEALED CRYSTAL**

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#### **ELECTRICAL SPECIFICATIONS**

ltem	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	25.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	18	pF	
Calibration Tolerance	FL	±30	ppm	at 25℃±3℃
Operating Temperature Range	TR	-40 to +85	C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±50	ppm	Reference to the Frequency at $25^\circ$
Operating Drive Level		10	μW	
Maximum Drive Level		100	μW	
Equivalent Series Resistance	ESR	50	Ω	Max
Shunt Capacitance	C0	5	pF	Max
Aging at 25℃		±5	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 FY 5.0x3.2 SEAM SEALED CRYSTAL**

#### FY2500074

VER. C 9-Feb-18

Time

60~120 Sec

60~150 Sec

10 Sec

#### **RELIABILITY SPECIFICATIONS**

#### MECHANICAL AND ENVIRONMENTAL RATINGS:

- a) FINE LEAK TEST: JESD22-A109 (Condition 1A)
- b) GROSS LEAK TEST: JESD22-A109 (Condition C)
- c) MOISTURE RESISTANCE: JESD22-A113
- d) SHOCK: JESD22-B104 (Condition B)
- e) SOLDERABILITY : (RoHS version): J-STD-002
- f) VIBRATION: JESD22-B103
- g) SOLVENT RESISTANCE: JESD22-B107
- h) RESISTANCE TO SOLDERING HEAT (RoHS version): J-STD-020D Table 5.2 Pb free devices (3 cycles max)

#### SUGGESTED IR REFLOW PROFILE

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











