PERICA PSE Tech SPECIFICAT	nnology Corj	poration		
CUSTOMER				
NOMINAL FREQUENC	Y 40.0	000000 MHz		
PRODUCT TYPE	TYPE FW 2.0x1.6	TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL		
SPEC. NO. ( P/N )	FW	FW400WFQA1		
CUSTOMER P/N				
ISSUE DATE	Ju	June 20, 2016		
VERSION	VERSION A			
APPROVED	PREPARED	QA		
Brenda	Nifbi Lu	Dong Yang		
Brenda APPROVED BY	Nifbi Lu CUSTOMER :	Song Jong AVL Status		
APPROVED BY Please return one copy wi		AVL Status		
	i <mark>th approval to PSE-TW</mark> ration i Industrial Park, *Pb-fre aiwan (R.O.C.) *RoHS *HF-Ha			

# TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL

### FW400WFQA1

VER. A 20-Jun-16

# **VERSION HISTORY**

Verision No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Jun.20,2016			Initial Release	



### **TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL**

## FW400WFQA1

VER. A 20-Jun-16

#### ELECTRICAL SPECIFICATIONS

ltem	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	40.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	7	pF	
Calibration Tolerance	FL	±10	ppm	at 25°C±3°C
Operating Temperature Range	TR	-30 to +85	°C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±10	ppm	Reference to the Frequency at 25°C
Operating Drive Level		10	μW	
Maximum Drive Level		100	μW	Max.
Equivalent Series Resistance	ESR	40	Ω	Мах
Shunt Capacitance	C0	3	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).



### **TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL**

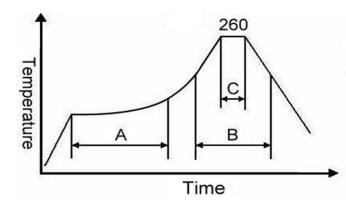
### FW400WFQA1

VER. A 20-Jun-16

FW400WFQA1	VER. A	20-Juli-10
RELIABILITY SPECIFICATIONS		
MECHANICAL AND ENVIRONMENTAL RATINGS:		
a) FINE LEAK TEST: JESD22-A109 (Condition 1A) (3x10 <sup>-9</sup> Pa m <sup>3</sup> /s)		
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

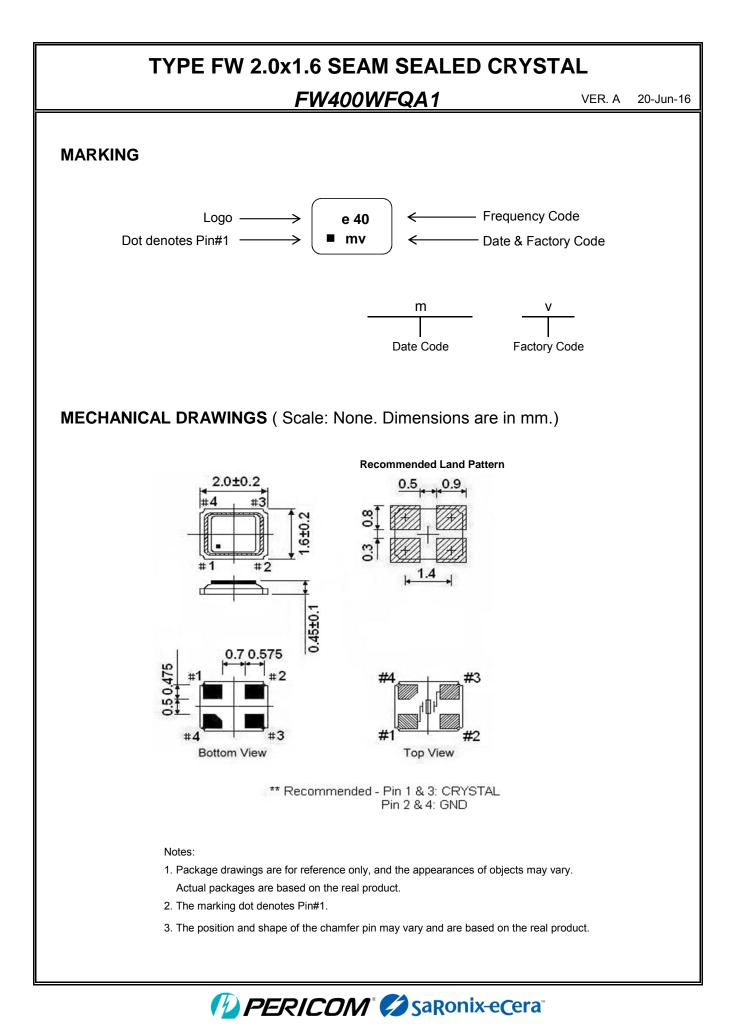
\*As per IPC-JEDEC J-STD-020D

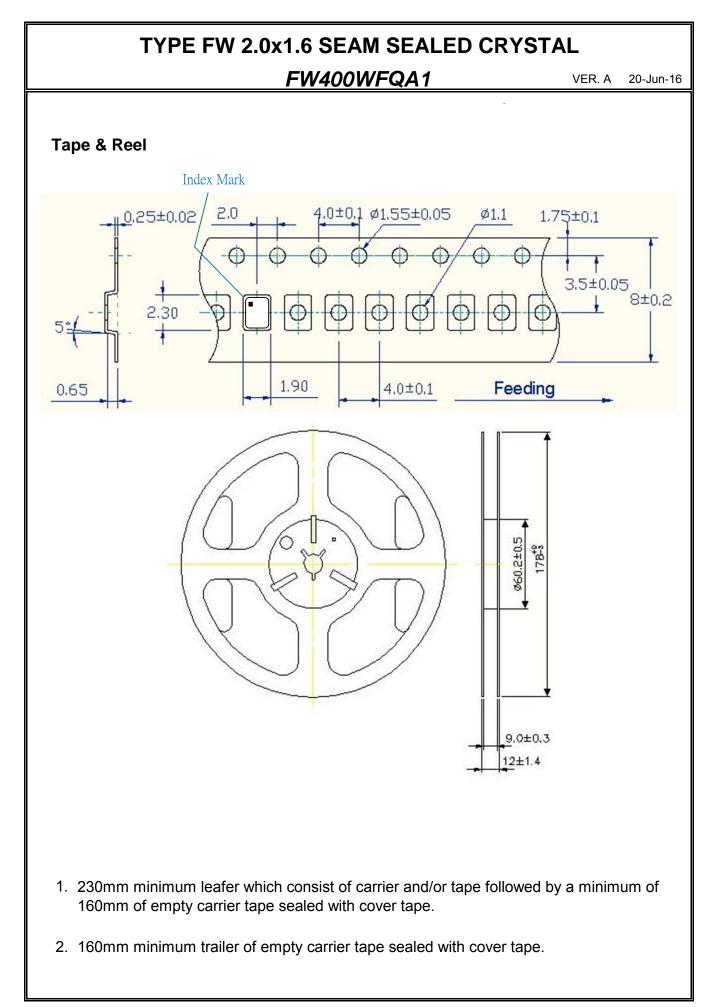


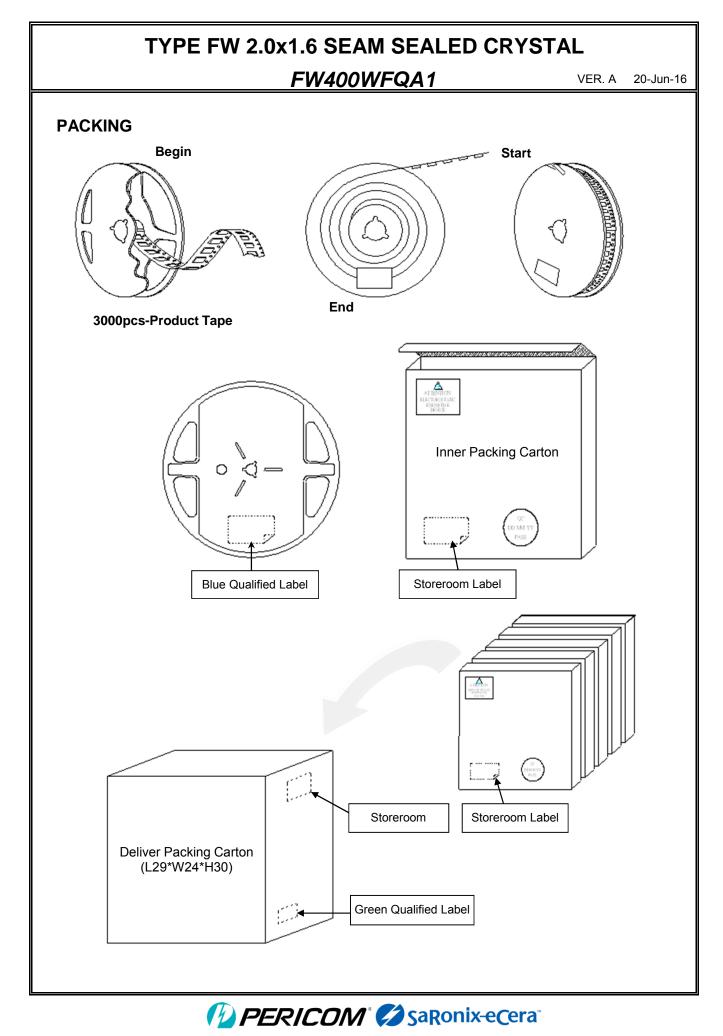
Note:					
<u>)</u> "	Stage	Temperature	Time		
А	Preheat	150~200°C	60~120 Sec		
в	Primary Heat	217°C	60~150 Sec		
С	Peak	260°C	10 Sec		

For soldering reflow profile and reliability test ratings go to: <u>http://www.pericom.com/pdf/sre/reflow.pdf</u>

# PERICOM<sup>®</sup> SaRonix-eCera<sup>®</sup>







E0-R-4-014 Rev. E