PERICON PSE Techn		_		
SPECIFICATIC	ON FOR	APPROVAL		
CUSTOMER				
NOMINAL FREQUENCY	19.20	00000 MHz		
PRODUCT TYPE	TYPE WT 3.2X2.5 TEMPERATUR	TYPE WT 3.2X2.5 TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR		
SPEC. NO. ( P/N )	WT325C	=0019.200000		
CUSTOMER P/N				
ISSUE DATE	Novem	ber 14, 2012		
VERSION		01		
APPROVED	PREPARED	QA		
Alan Long E	Brenda	Bedayiri		
APPROVED BY CUSTOMER :		AVL Status		
Please return one copy with ap	proval to PSE-TW			
PSE Technology Corporation	n			
No.2, Tzu-Chiang 5th Rd, Chung Li Industrial Park, Chung Li City, Taoyuan County, Taiwan (R.O.C.)*Pb-free *RoHSTEL: 886-3-451-8888 FAX: 886-3-461-3865*HF-Ha		e Compliant Iogen Free H Compliant		
*** A company of 💋 PE	RICOM Semicon	ductor Corporation ***		
Pericom Internal Reference NO. WT3519206A				

# WT325CF0019.200000

VER. 01 14-Nov-12

# **VERSION HISTORY**

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
01	Nov.14,2012			Initial Release	



# TYPE WT 3.2X2.5 TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR WT325CF0019.200000 VER. 01 14-Nov-12

# **ELECTRICAL SPECIFICATIONS**

#### SRe Part Number : WT325CF0019.200000

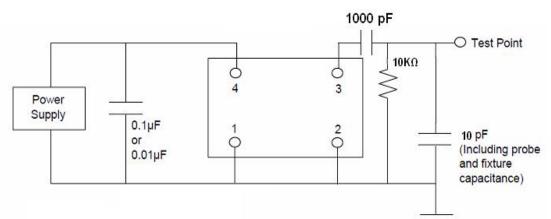
Item	Symbol	Specifications	Units	Notes	
Nominal Frequency	Fo	19.200000	MHz		
Operating Temperature Range	TR	-30 to +85	°C		
Storage Temperature Range		-40 to +85	°C		
Supply Voltage	V <sub>DD</sub>	+2.8 ± 5.0%	V		
Frequency Stability FT		± 0.5	ppm	ppm vs. Temperature (Refer to the mid-point between minimum and maximum frequency values over the specified temperature range	
Frequency Stability		± 0.2	ppm	vs. Load varied 10pF//10kΩ±10%	
Frequency Stability		± 0.1	ppm	vs. Supply Voltage varied Vdd±5% at 25°C	
Frequency Tolerance		± 2.0	ppm	Max. After 2 times reflow (Refer to nomina frequency)	
Frequency Slope		± 0.3	ppm/°C	Max. (measurement every 2°C from -30°C to +85°C )	
Static Temperature Hysteresis		± 0.6	ppm	Max.	
Aging		±1	ppm	per year at 25°C	
Logic Type	LT	Clipped Sinewave			
Supply Current		2 mA		Max.	
Start Up Time v.s Output Level		2.5	msec	Max, 90% of specified output level	
Output Voltage		0.8 to 1.4	Vp-р		
Output Load Resistance		10	ΚΩ	9KΩ Min / 11KΩ Max	
Output Load Capacitance		10	pF	9pF Min / 11pF Max	
Harmonics		-7	dBc	Max.	
Phase Noise		-130	dBc/Hz	Max, at 1kHz offset	



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### **TEST CIRCUIT**



## **RELIABILITY SPECIFICATIONS**

#### ENVIRONMENTAL:

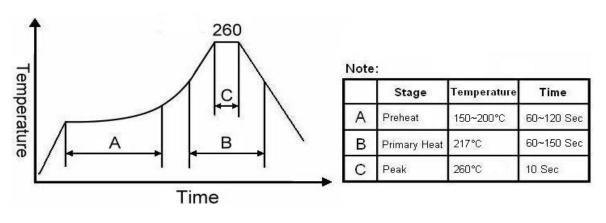
- a) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition A
- b) MOISTURE RESISTANCE: MIL-STD-883, Method 1004
- c) VIBRATION: MIL-STD-883, Method 2007, Condition A
- d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Table 5-2 Pb-free devices (except 2 cycles max)
- e) HAZARDOUS SUBSTANCE: Pb free and RoHS Compliant.

#### **MECHANICAL:**

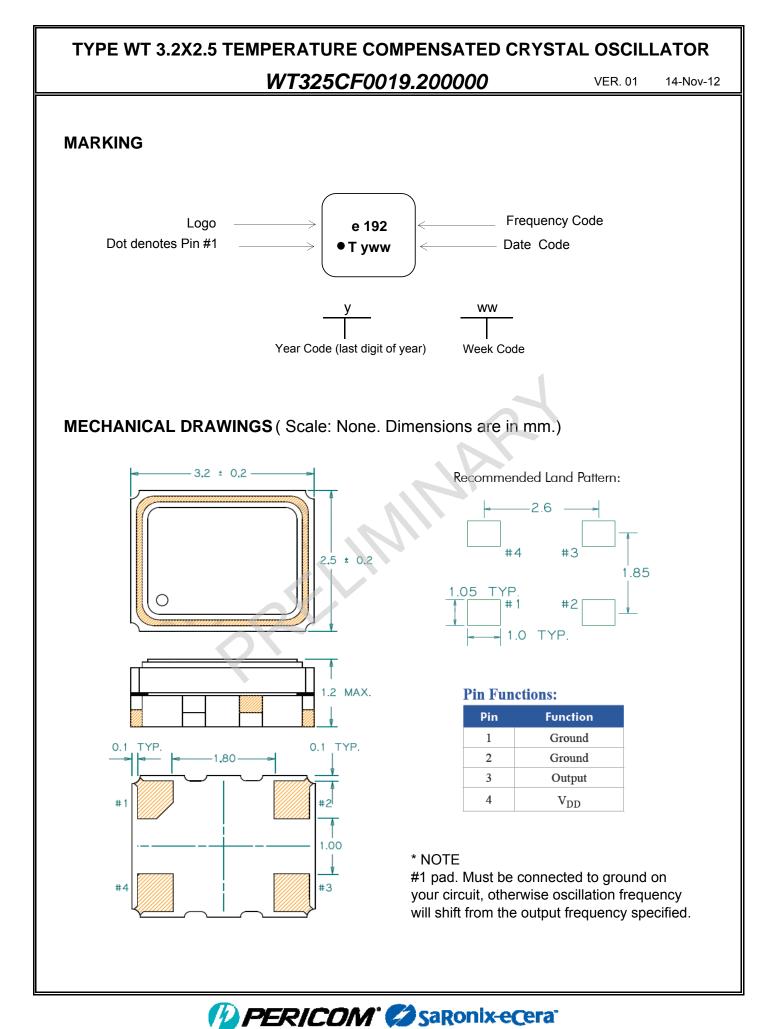
- a) SHOCK: MIL-STD-883, Method 2002, Condition B
- b) SOLDERABILITY: JESD22-B102-D Method 2 (Preconditioning E)
- c) TERMINAL STRENGTH: MIL-STD-883, Method 2004, Test Condition D
- d) GROSS LEAK: MIL-STD-883, Method 1014, Condition C
- e) FINE LEAK: MIL-STD-883, Method 1014, Condition A2, R1=2x10<sup>8</sup> atm cc/s
- f) SOLVENT RESISTANCE: MIL-STD-202, Method 215

### SUGGESTED IR REFLOW PROFILE

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



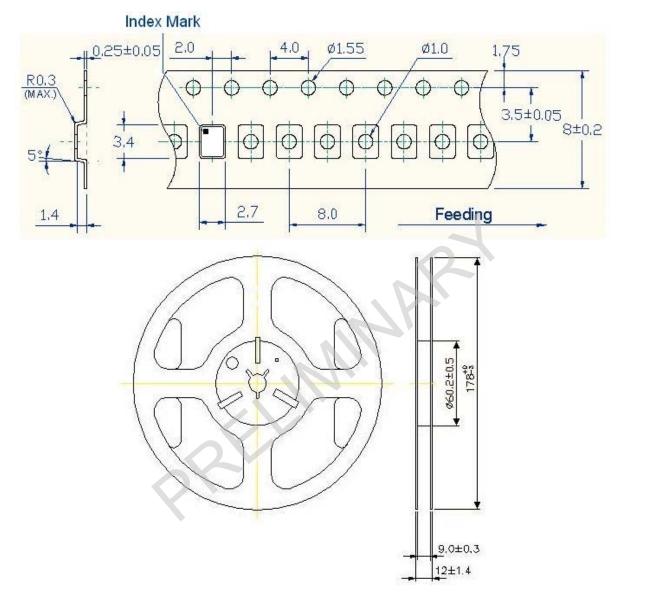




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### TAPE&REEL



- 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.



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#### PACKING

