### **Obsolete – Part Discontinued**

# SaRonix-eCera

#### **UW Series Quartz Crystal**

#### 2.0 x 1.6 x 0.30mm

## Miniature Quartz Crystal Ceramic SMD



2.0 x 1.6mm Ceramic SMD

#### **Product Features**

- Rugged AT-cut crystal construction
- Miniature 2.0 x 1.6mm ceramic package
- Available on tape & reel; 8mm tape, 3000 units per reel
- Pb-free and RoHS/Green compliant

#### **Product Description**

The 4-pad FW Series seam seal devices incorporate a ultra-miniature AT-cut crystal resonator housed in a standard 2.0 x 1.6mm ceramic package. These compact crystals are ideal for surface mounting in densely populated or small form-factor PCB applications.

#### **Typical Applications**

- Smart Phone
- Portable / Hand-held PCs
- PCMCIA Cards
- Notebook PC
- Bluetooth
- Wireless LAN
- SIP
- RF-SIM
- Pen Drive
- SD Module

#### **Frequency Range:**

• 26.000000 MHz to 66.000000 MHz (Fundamental)

#### Characteristics at 25°C ±2°C:

- Frequency Calibration Tolerance:  $\pm 10$  ppm, to  $\pm 50$  ppm
- Load Capacitance: 8 to 20pF or Series Resonance
- Equivalent Series Resistance (ESR):
  - $100\Omega$  max (26.000000 to 32.000000 MHz)
  - 80Ω max (32.000001 to 66.000000 MHz)
- Drive Level:  $10\mu$ W typ. ( $100\mu$ W max)
- Shunt Capacitance: 3pF Max

#### **Temperature Range:**

- Operating: -20°C to +70°C or -30°C to +85°C
- Storage:  $-40^{\circ}C$  to  $+85^{\circ}C$

#### Frequency Stability (Reference to the Frequency at 25°C):

- –20°C to +70°C :  $\pm$ 10ppm to  $\pm$ 50ppm
- $-30^{\circ}C$  to  $+85^{\circ}C$  :  $\pm 20$  ppm to  $\pm 50$  ppm

#### Aging at 25°C, First Year:

- •±3ppm Max
- •±5ppm Max

#### **Reflow Temperature:**

•260°C Max, 10 seconds Max

#### Mechanical

- •Shock: JESD22-B104 Condition B
- •Solderability: J-STD-002
- •Vibration: JESD22-B103
- •Solvent Resistance: JESD22-B107
- Resistance to Soldering Heat: J-STD-020C Table 5-2 Pb-free devices (3 cycles max)

#### Environmental

- •Gross Test Leak: JESD22-A109, Condition C
- Fine Test Leak: JESD22-A109, Condition A1
- Moisture Resistance: JESD22-A113
- Insulation Resistance: 500 MΩ min (100 VDC)

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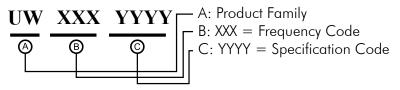


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## Miniature Quartz Crystal Ceramic SMD UW

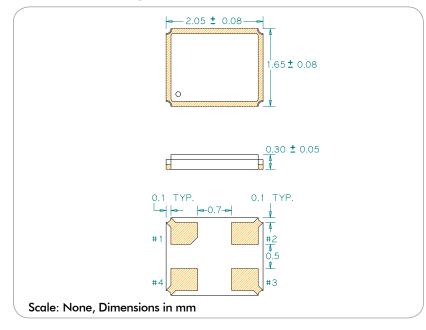
#### UW Series Quartz Crystal 2.0 x 1.6 x 0.30mm

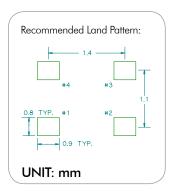
#### **Part Ordering Information:**



Following the above format, Saronix-eCera part numbers will be assigned upon confirmation of exact customer requirements.

#### **Mechanical Drawings:**





#### **Pin Functions:**

Pin	Function
1	Xtal
2	Case
3	Xtal
4	Case

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