## SURFACE MOUNT DUARTZ CRYSTALS

### **14SMX Crystals**



#### ISSUE 10; 23 SEPT 2008

#### **Delivery Options**

RoHS 2002/95/EC

Please contact our sales office for current leadtimes

#### **Holder Style**

 14SMX surface mount crystals are encapsulated in a ceramic package with a seam welded metal lid

#### **General Specifications**

- Load Capacitance (C<sub>L</sub>): 10pF to 75pF or Series
- Drive Level: 0.1mW max
- Static Capacitance (C<sub>0</sub>): 7pF max

#### **Packaging**

 14SMX surface mount crystals are available packaged individually or on tape and reel

#### **Standard Frequency Tolerances and Stability**

■ ±15ppm, ±20ppm, ±30ppm, ±50ppm, ±100ppm

#### **Operating Temperature Ranges**

−20 to 70°C

#### Storage Temperature Range

■ -40 to 85°C

#### Marking includes

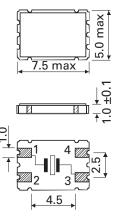
Fax: +44 (0)1460 72578

■ Frequency

#### **Minimum Order Information Required**

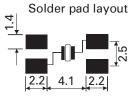
Frequency + Holder + Frequency Tolerance @ 25°C
 + Frequency Stability + Operating Temperature Range + Circuit Condition + Overtone Order

#### Outline in mm



e-mail: info@iqdfrequencyproducts.com

Pad connections 1.Crystal 2.GND & lid 3.Crystal 4.GND & lid





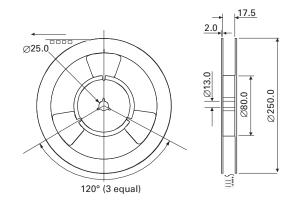
#### Electrical Specification – maximum limiting values

Frequency Range	Frequency Tolerance @ 25°C ±2°C	Operating Temperature Range	Frequency Stability Available Over Operating Temperature		ESR	Vibration
			Minimum	Maximum	max.	Mode
8.0 to <10.0MHz	±10ppm to ±100ppm	0 to 50°C	±5ppm		60Ω	Fundamental AT cut
		-10 to 60°C		±100ppm 40Ω  80Ω		
		-20 to 70°C				
		-30 to 80°C	±15ppm			
		-40 to 85°C	±20ppm			
10.0 to <16.0MHz		0 to 50°C	±5ppm			
		-10 to 60°C				
		-20 to 70°C			50Ω	
		-30 to 80°C	±15ppm			
		-40 to 85°C	±20ppm			
16.0 to <32.0MHz		0 to 50°C	±5ppm		1	
		-10 to 60°C				
		-20 to 70°C			40Ω	
		-30 to 80°C	±15ppm			
		-40 to 85°C	±20ppm			
28.0 to <84.0MHz		0 to 50°C	±5ppm			
		-10 to 60°C				
		-20 to 70°C			3rd Overtone AT cut	
		-30 to 80°C	±15ppm			711 041
		-40 to 85°C	±20ppm			
84.0 to <100.0MHz		0 to 50°C	±5ppm		5:1.0	
		-10 to 60°C				
		-20 to 70°C			200	5th Overtone AT cut
		-30 to 80°C	±15ppm			
		-40 to 85°C	±20ppm			
pote: High frequency	y fundamentals are availal	ole up to 200.0MHz, please o	contact Applications	Support.		

#### Outline in mm - Tape

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#### Outline in mm - Reel



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