

# ISSUE 16; 26 JUNE 2009 - RoHS 2002/95/EC

# Holder Style

- Resistance welded, hermetically sealed in an inert atmosphere with glass to metal seals securing the lead wires. The lead wires are formed into a gull wing and mounted on a plastic former
- Lower profiles available, please contact our sales office

#### **General Specifications**

- Load Capacitance (CL): 10pF to 75pF or Series
- Drive Level: 0.5mW max
- Static Capacitance (C0): 7pF max
- Ageing: ±5ppm typical per year

### Packaging

Loose in bulk pack or tape and reel

### Standard Frequency Tolerances and Stabilities

 ±30ppm, ±50ppm, ±100ppm, tighter tolerances & stabilities may be available on request.

### **Operating Temperature Ranges**

- 0 to 50°C
- –10 to 60°C
- –20 to 70°C
- –30 to 80°C
- –40 to 85°C
- –55 to 105°C

### Storage Temperature Range

–55 to 125°C

### **Environmental Specification**

- Shock: 981m/s2 for 6ms, three shocks in each direction along three mutually perpendicular planes,
- Vibration: 10 to 60Hz 0.75mm displacement, 60 to 500Hz 98.1m/s2 acceleration, 30 minute in each of three mutually perpendicular planes

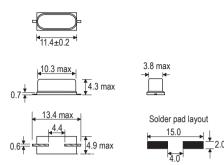
#### Marking Includes

Frequency

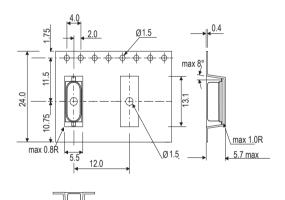
### **Minimum Order Information Required**

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

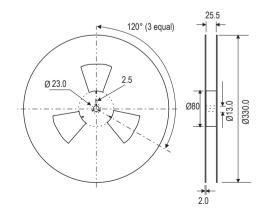
# Outline (mm)



Tape (mm)











IQD Frequency Products Ltd, Station Road, Crewkerne, Somerset TA18 8AR, United Kingdom Tel: +44 (1460) 270200; Fax: +44 (1460) 72578; Email: info@iqdfrequencyproducts.com Web: www.iqdfrequencyproducts.com



QUARTZ CRYSTALS

### Electrical Specifications - maximum limiting values

Frequency Range	Frequency Tolerance @25°C ±2°C	Operating Temperature Range	Frequency Stability Available Over Operating Temperature Range		ESR Max	Vibration Mode
			Minimum	Maximum		
3.2 to <4.0MHz	±10ppm to ±100ppm	0 to 50°C	±15ppm	±100ppm	300Ω	Fundamental AT cut
		-10 to 60°C	±20ppm			
		-20 to70°C	±20ppm	-		
		–30 to 80°C	±25ppm	±500ppm		
		–40 to 85°C	±30ppm			
		–55 to 105°C	±100ppm			
4.0 to <5.5MHz	±10ppm to ±100ppm	0 to 50°C	±15ppm	±100ppm	130Ω	Fundamental AT cut
		-10 to 60°C	±20ppm			
		-20 to70°C	±20ppm			
		–30 to 80°C	±25ppm			
		–40 to 85°C	±30ppm			
		–55 to 105°C	±100ppm	±500ppm		
5.5 to <8.0MHz	±10ppm to ±100ppm	0 to 50°C	±15ppm	±100ppm	60Ω	Fundamental AT cut
		-10 to 60°C	±20ppm			
		-20 to70°C	±20ppm			
		–30 to 80°C	±25ppm			
		–40 to 85°C	±30ppm			
		–55 to 105°C	±100ppm	±500ppm		
8.0 to <40.0MHz	±10ppm to ±100ppm	0 to 50°C	±15ppm	±100ppm	40Ω	Fundamental AT cut
		–10 to 60°C	±20ppm			
		-20 to70°C	±20ppm			
		–30 to 80°C	±25ppm			
		-40 to 85°C	±30ppm			
		–55 to 105°C	±100ppm	±500ppm		
27.0 to 50.0MHz	Inclusive with Frequency Stability	0 to 50°C	±50ppm	±100ppm	40Ω	Fundamental BT cut
		-10 to 60°C	±70ppm			
		-20 to70°C	±100ppm			
26.0 to 100.0MHz	±10ppm to 100ppm	0 to 50°C	±15ppm	±100ppm	100Ω	3rd Overtone AT cut
		-10 to 60°C	±20ppm			
		-20 to70°C	±20ppm			
		-30 to 80°C	±25ppm			
		-40 to 85°C	±30ppm			
		-55 to 105°C	±100ppm	±500ppm		
	cies & specifications please		Troophin	Tooohhiii		



