

CFPX-98 CRYSTALS

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Holder Style

- Resistance welded, hermetically sealed in an inert atmosphere with glass to metal seals securing the lead wires. The low profile crystal is attached to a surface mount base and is pad for pad compatible to the 6SMX surface mount crystal

General Specifications

- Load Capacitance (CL): 10pF to 75pF or Series
- Drive Level: 0.5mW max
- Static Capacitance (CO): 7pF max
- Ageing: ± 3 ppm typical per year

Standard Frequency Tolerances and Stabilities

- ± 30 ppm, ± 50 ppm, ± 100 ppm, tighter tolerances and stabilities may be available on request

Operating Temperature Ranges

- 0 to 50°C
- 10 to 60°C
- 20 to 70°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

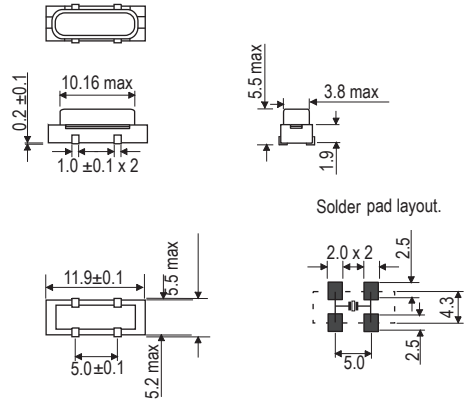
Marking includes

- Frequency

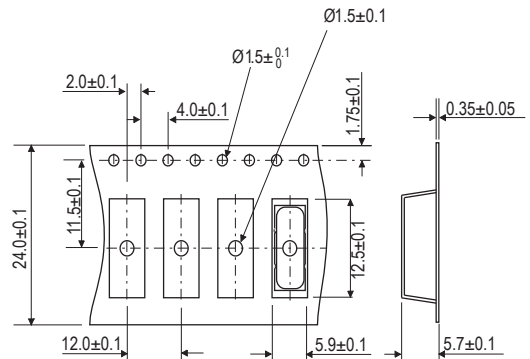
Minimum Order Information Required

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

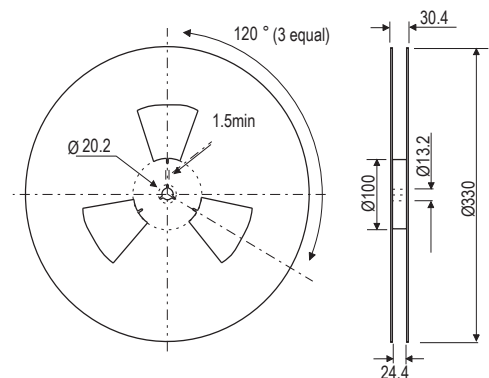
Outline (mm)



Tape (mm)



Reel (mm)



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 to 70°C	±20ppm			
		-30 to 80°C	±25ppm			
		-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 to 70°C	±20ppm			
		-30 to 80°C	±25ppm			
		-40 to 85°C	±30ppm			
		-55 to 105°C	±100ppm			
5.5 to <8.0MHz	±10ppm to ±100ppm	0 to 50°C	±15ppm	±100ppm	60Ω	Fundamental AT cut
		-10 to 60°C	±20ppm			
		-20 to 70°C	±20ppm			
		-30 to 80°C	±25ppm			
		-40 to 85°C	±30ppm			
		-55 to 105°C	±100ppm			
8.0 to <40.0MHz	±10ppm to ±100ppm	0 to 50°C	±15ppm	±100ppm	40Ω	Fundamental AT cut
		-10 to 60°C	±20ppm			
		-20 to 70°C	±20ppm			
		-30 to 80°C	±25ppm			
		-40 to 85°C	±30ppm			
		-55 to 105°C	±100ppm			
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 to 70°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 to 70°C	±20ppm			
		-30 to 80°C	±25ppm			
		-40 to 85°C	±50ppm			
		-55 to 105°C	±100ppm			

Note. For any other frequencies / specification please contact our sales office