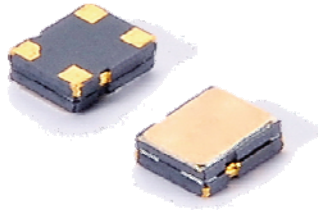


## SMD Crystal Oscillators - JO21C Series



### 4 Pad Version 2.0×1.6 mm

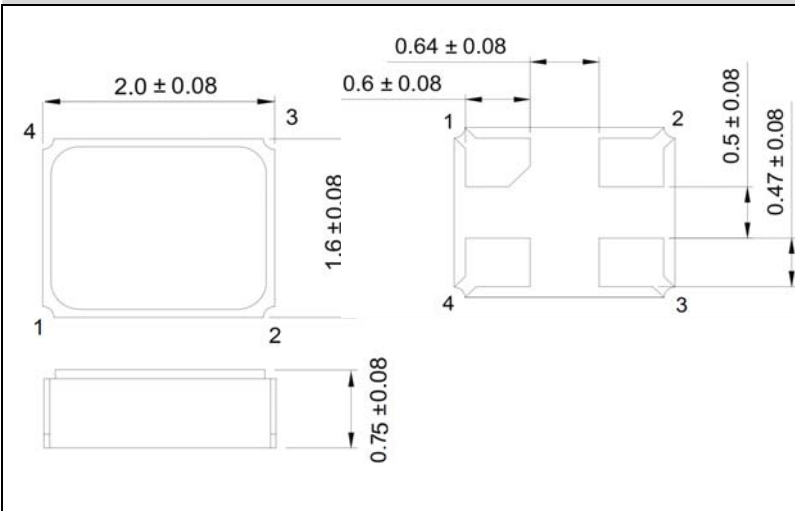
- High stability, Low Jitter.
- Extremely small SMD seam sealed clock crystal oscillators.
- Supply voltage range : 1.8V ~ 3.3V.
- Tri-State function standard.
- RoHS Compliant /Pb Free.

#### Standard Specification

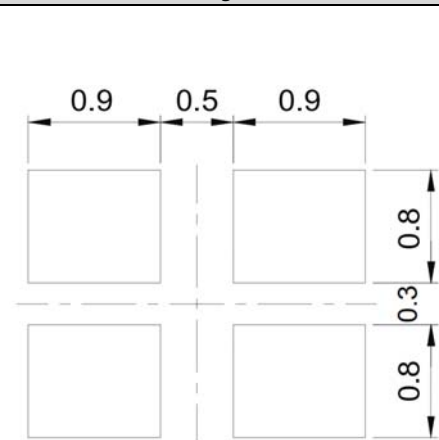
PARAMETERS	Sign	SPECIFICATION 规格
Frequency Range	F0	4~54MHz, 32.768KHz
Oscillation Mode		Fundamental
Supply voltage	Vdd	1.8V、2.5V、2.8V、3.3V
Frequency Stability	FS	±25ppm, ±50ppm, or specify
Input Current	Idd	5mA max.
Operating Temp. Range:	T <sub>OPR</sub>	-10~+70°C to -40~+125°C
Storage Temp. Range:	T <sub>STG</sub>	-55~+125°C
Symmetry		45~55%、40~60%
Rise and Fall Time	Tr/Tf	5ns max. (for MHz)
		200ns max. (for 32.768KHz)
Start-up time		5ms max. (for MHz)
		10ms max. (for 32.768KHz)
Aging (at 25°C)		±3ppm/year max.

⊙ All specification subject change without notice.

#### Dimensions (mm)



#### Solder Pad Layout (mm)

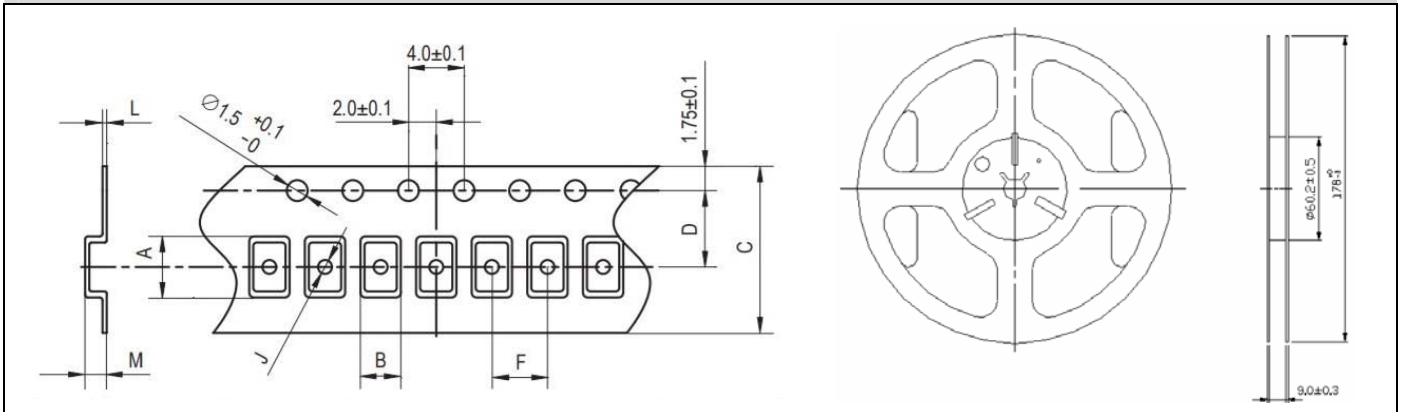


■ Part Numbering guide

e.g. JO21C-24M576-B25-B3

Logo	Quartz Crystal Oscillator	Series		Center Freq.		Operating Temp. Range	Freq. Stability		Supply voltage	Extra Code
J	O	21C	-	24M576	-	B	25	-	B	3

■ Taping Specification



The technical drawing shows a side view of a tape reel with dimensions A through M and a top view. The side view dimensions are: A (2.25±0.1), B (1.85±0.1), C (8.0±0.2), D (3.5±0.1), F (4.0±0.1), J (1.0±0.1), L (0.25±0.05), and M (1.4±0.2). The top view shows a circular reel with a diameter of 9.0±0.3 and a central hole diameter of 0.6±0.05. The reel has a width of 1.76±0.1 and a hole diameter of 1.5±0.1. The distance between the center of the reel and the center of the first hole is 2.0±0.1. The distance between the center of the reel and the center of the last hole is 4.0±0.1. The distance between the center of the reel and the center of the first hole is 2.0±0.1. The distance between the center of the reel and the center of the last hole is 4.0±0.1.

A	B	C	D	F	J	L	M	Qty/Reel
2.25±0.1	1.85±0.1	8.0±0.2	3.5±0.1	4.0±0.1	1.0±0.1	0.25±0.05	1.4±0.2	3000pcs