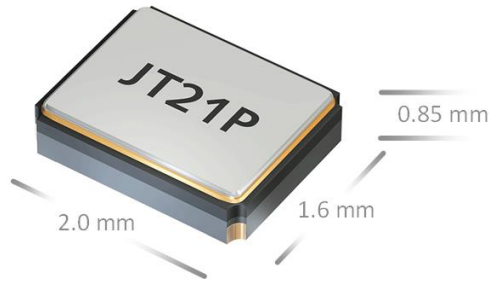


# - Product Announcement -



**NEW:** JT21P and JT21PV  
TCXO and VCTCXO  
in miniature SMD package



## Small-sized SMD TCXO and VCTCXO

JT21P and JT21PV is a series of temperature compensated high stability oscillators with a frequency stability as tight as  $\pm 1.0$  ppm, and is offered in a frequency range from 8.0 MHz to 52.0 MHz and is starting at 1.8V.

In addition to the TCXO JT21P, the VCTCXO version JT21PV can be tuned by  $\pm 8.0$  ppm min. using an external voltage.

Due to the high frequency stability down to  $\pm 1.0$  ppm the JT21P(V) series fulfils very high requirements and is specially designed for ZigBee, Bluetooth and other wireless applications. The JT21P(V) series combines excellent frequency stability with a clipped sine output, that enables a very low power consumption.

The JT21P(V) series is particularly suitable for miniaturized electronic devices with very limited space on printed circuit board.

The JT21P(V) is available in a variety of temperature ranges, up to the extended operating temperature range of  $-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$  for industrial applications.

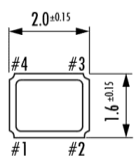
The JT21P / JT21PV complies with the EU RoHS directive and is optimally suitable for fast automatic assembly lines.

### Key-Features of the JT21P and JT21PV:

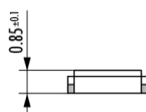
- miniature-package: 2.0mm x 1.6mm x 0.85mm
- best stability and temp. range:  $\pm 1$  ppm ( $-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$ )
- frequency range: 8.0 MHz ~ 52.0 MHz
- supply voltages: 1.8 / 2.5 / 2.8 / 3.0 ( $\pm 5\%$ )
- typical applications: Wireless applications (WiFi, ZigBee, Bluetooth etc.)
- VCTCXO version available with configurable center voltage
- small packaging area and light weight
- suitable for Lead-free soldering process at  $260^{\circ}\text{C}$  max
- 100% lead-free
- RoHS compliant



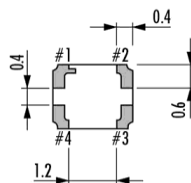
### Dimensions:



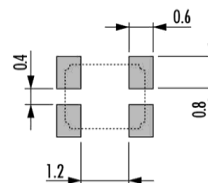
top view



side view



bottom view



pad layout

TCXO  
JT21P  
# 1: GND  
# 2: GND  
# 3: output  
# 4: Vcc

VCTCXO  
JT21PV  
# 1: Vcontrol  
# 2: GND  
# 3: output  
# 4: Vcc

pin connection

in mm