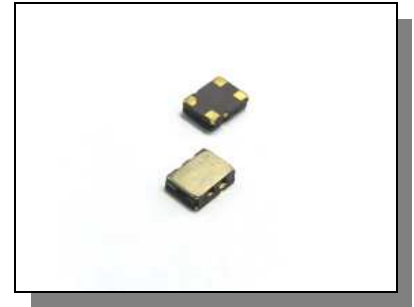


## ■ Features

- ★ Ultra-thin
- ★ Seam sealed
- ★ Low phase noise
- ★ High stability

## ■ Application

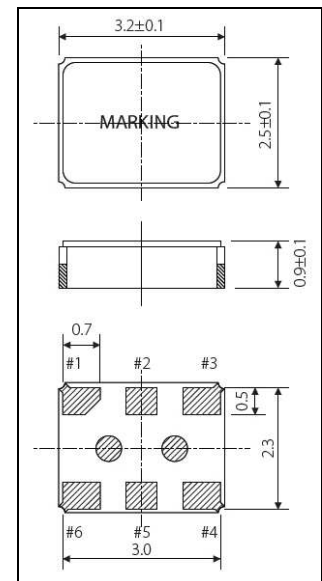
- ★ Cellular
- ★ PHS
- ★ GPS
- ★ Communication Equipment



## ■ Specification (Characteristics)

Item		Specification
Frequency range		8.000 ~ 45.000 MHz
Nominal frequency (MHz)		8, 10, 13, 14.4, 16.3676, 19.2, 19.8, 20, 24.5535, 26, 39, 40, 44
Frequency stability	Tolerance at 25°C	$\pm 2.0 \times 10^{-6}$ (Sixty minutes after reflow)
	Temperature (Ref.to+25°C)	$\pm 2.5 \times 10^{-6}$ / -30 ~ +75°C
	Supply voltage change	$\pm 0.2 \times 10^{-6}$ / Vdd $\pm$ 5%
	Load change	$\pm 0.2 \times 10^{-6}$ / ZL $\pm$ 10%
Aging (at 25°C)		$\pm 1.0 \times 10^{-6}$ / First year
Storage temperature range		-40 ~ +85°C
Power supply voltage (Vcc)		+2.5, +2.8V, +3.0V, +3.3V DC $\pm$ 5%
Current consumption		1.5mA max. (~ 20MHz), 2.0mA max. (~ 32MHz), 2.5mA max. (~ 45MHz)
Output	Load (ZL)	10k $\Omega$ //10pF
	Voltage	0.8V p-p min.
	Waveform	Clipped Sine Wave (DC-coupled output)
External control function	Frequency tuning range	$\pm 8.0 \times 10^{-6}$ min. (Positive)
	External control voltage	+1.5V $\pm$ 1.0V DC
	Input impedance (Zvin)	500k $\Omega$ min. (650k $\Omega$ typ.)
Phase noise		-135dBc typ. at 1kHz offset
Package quantity		3,000pcs max. / Reel.

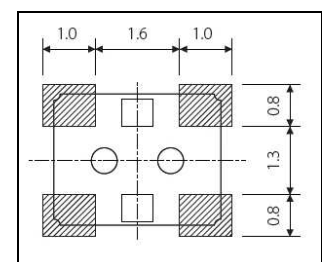
## ■ Dimension (Unit: mm)



## ■ Pin Connection

PIN#	TCXO	VCTCXO
PIN 1	GND	Vcont
PIN 2	N.C.	
PIN 3	GND	
PIN 4	OUTPUT	
PIN 5	N.C.	
PIN 6	Vdd	

## ■ Recommended Soldering



## ■ Part Number and Ordering

Part Number Code	Holder Type + Frequency + Tolerance + Stability VS Temp. + Operating Temp. + PPM/DC + Input Voltage
Ordering Code	Same as Above
Example	TCXO/SMD3225-25.0M-0.3-0.1-0/70-15/5-5V