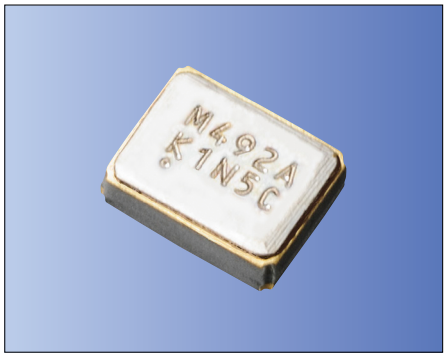
Temperature Compensated Crystal Oscillators (TCXO)
Surface Mount Type TCXO KT1612A Series
(Low Phase Noise, With Disable Function)

Find TCXO Here

1.6×1.2mm



RoHS Compliant

Features

- Ultra-miniature SMD type (1.65×1.25×0.55mm)
- Low Phase Noise : −164dBc/ Hz@100kHz offset, 52MHz
- With Disable Function
- Freq. temp. characteristics. : ±2.0×10^{-6}/ −30 to +85°C : ±0.5×10^{-6}/ −30 to +85°C (for GNSS)
- 1.68 to 3.63V drive available
- Reflow compatible
- Operating Temp. −40 to +105°C (Option)

Applications

- Mobile communications, Wireless modules
- GNSS Unit
- Wi-Fi 6 (IEEE802.11ax)
- Networking equipments

*Wi-Fi® is a registered trademark of Wi-Fi Alliance.

How to Order

KT1612A 52000 □ □ □ □□ N x G
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

①Series

KT1612A	1612 Size

②Output Frequency

③Freq. Temp. Chrst.

A	±0.5×10^{-6}
B	±1.0×10^{-6}
C	±1.5×10^{-6}
D	±2.0×10^{-6}

④Lower Operating Temp.

C	−30°C
E	−20°C
G	−10°C

⑤Upper Operating Temp.

W	+85°C
V	+80°C
U	+75°C

⑥Supply Voltage

18	1.8V	28	2.8V
30	3.0V	33	3.3V

⑦Disable Function

N	With Disable Function

⑧Individual Specification

⑨Low Phase Noise Type

G	Low Phase Noise

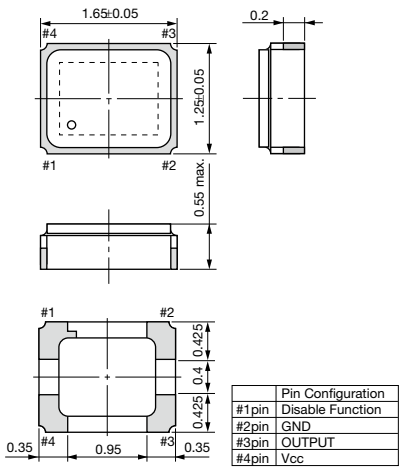
Packaging (Tape & Reel 18000 pcs./ reel)

Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	fo	Standard Output Frequency: 19.2 / 26.0 / 38.4 / 48.0 / 52.0 / 76.8	19.2	76.8	MHz
Frequency Tolerance	f_tol	vs Temperature	−0.5/ −2	+0.5/ +2	×10^{-6}
		vs Load	−0.1	+0.1	
		vs Voltage	−0.1	+0.1	
Frequency Aging	f_age	Per Year	−1	+1	×10^{-6}
Storage Temperature Range	T_stg		−40	+85	°C
Operating Temperature Range	T_use		−30	+85	°C
Supply Voltage	Vcc		1.68	3.63	V
Output Level	Vpp	Clipped Sine*, Load: 10k ohm / / 10pF	0.8	—	Vp−p
Current Consumption	Icc		—	3	mA
Harmonics	—		—	−5	dBc

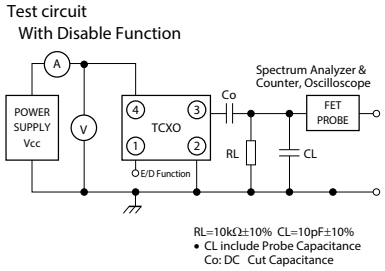
* : A DC-cut capacitor is not embedded in this crystal oscillator. Connect a DC-cut capacitor (≥1nF) to the line-out terminal of the oscillator.
* Please contact us for other specifications.

Dimensions (Unit: mm)

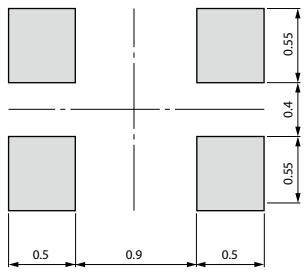


	Pin Configuration
#1pin	Disable Function
#2pin	GND
#3pin	OUTPUT
#4pin	Vcc

Test Circuit



Recommended Land Pattern (Unit: mm)



Note: 0.01μF capacitor between Vcc and GND is recommended for bypass purpose.