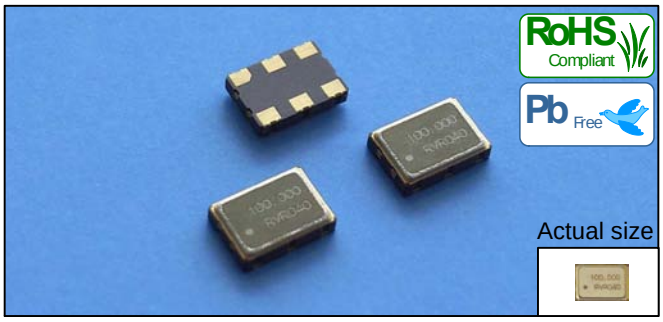
SURFACE MOUNT CRYSTAL OSCILLATOR

FCXO-75PE



Features

- Very low phase jitter
- Ceramic package and metal lid assures extreme accuracy and high reliability.
- Lead-free soldering is available.
- Applications: Networking systems,Test and measurement, Servers and storage systems, Profession video equipments, FPGA/ASIC clock generation

Specifications

Item	Symbol	Specifications			
		Min.	Typ.	Max.	Note
Frequency	F0	10MHz		400 MHz	As specifiied
Frequency Stability	FT			±50 ppm	See ※1 below
Storage temperature range		−55℃		+125℃	
Operating temperature range	TR	−20℃		+70℃	Commercial(standard)
		−40℃		+85℃	Industrial(standard)
Supply voltage	Vcc	3.135V	3.30V	3.465V	or 2.5V±5%
Current consumption	Icc/OE			60mA	
Disable current	Icc/OD			20mA	
Logic type	LT	PECL			
Output voltage "0"level	V_{OL}			Vcc−1.55V	
Output voltage "1"level	V_{OH}	Vcc−1.2V			
Output load		See Test Circuit			
Symmetry	SYM	45%		55%	Mesured 50%V_{CC}
Rise time / Fall time	T_R/T_F			350ps	Mesured 20/80% of waveform
Phase jitter	RMS(1-σ)		0.8ps		(Offset frequency:12kHz to 20MHz)

※1 Stability includes all combinations of operating temperature ,load changes , rated input (supply) voltage changes,initial calibration tolerance(25℃),aging(5 years at 40℃ average effective ambient temperature),shock and vibration.

Output Enable /Disable Function

Item	Min.	Typ.	Max.	Note
Input Voltage(OE pin),Output Enable	0.7V_{CC}			or open
Input Voltage(OE pin),Output Disable			0.3V_{CC}	Outputs disabled to Hi-Z
Output Disabel Delay			200ns	
Output Enabel Delay			200ns	
Start up time			10ms	

- Bypass capacitor should be connected between V_{DD} and GND due to the stabilized operation for the crystal oscillator.
- Please consult us for customized specifications.
- All specifications and markings subjected to change without notice.

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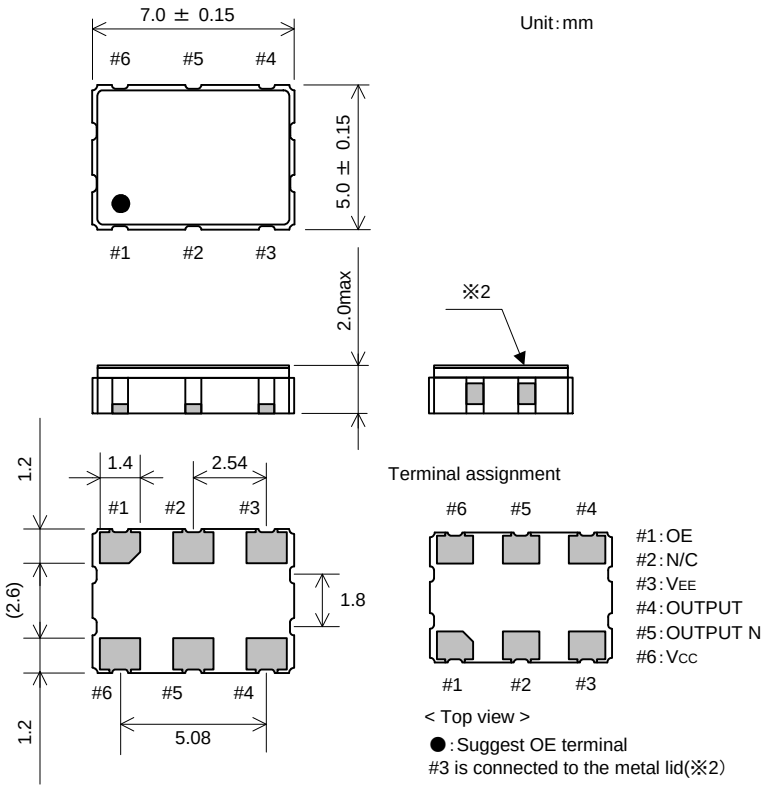
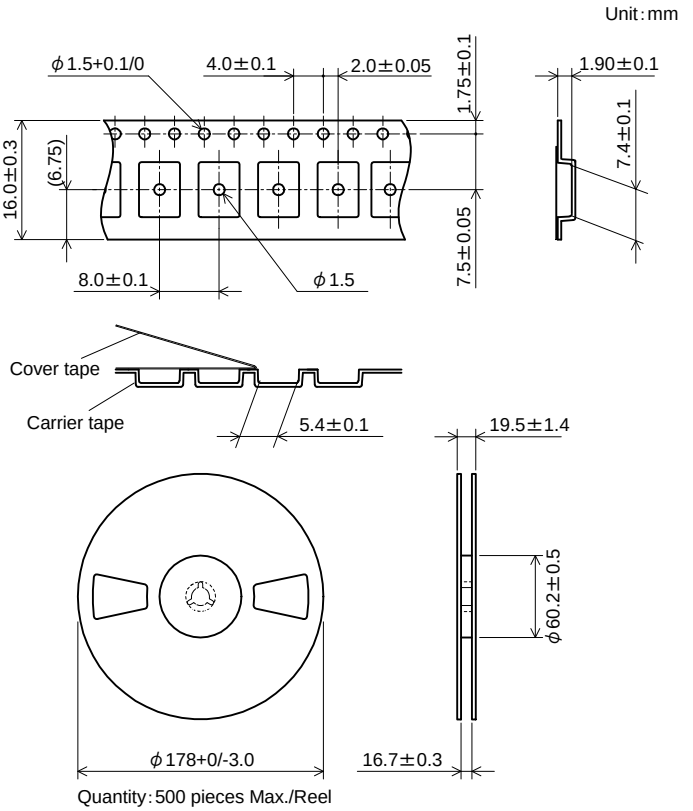
FCXO-75PE

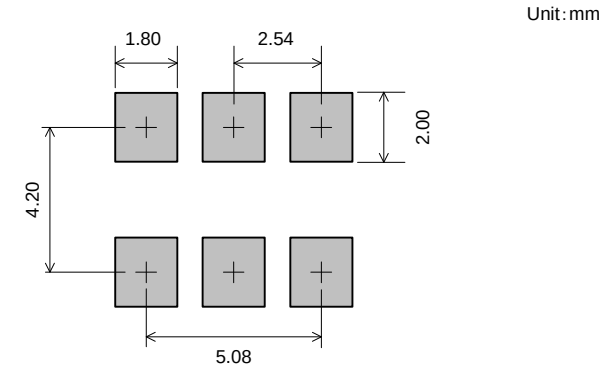
Dimensions



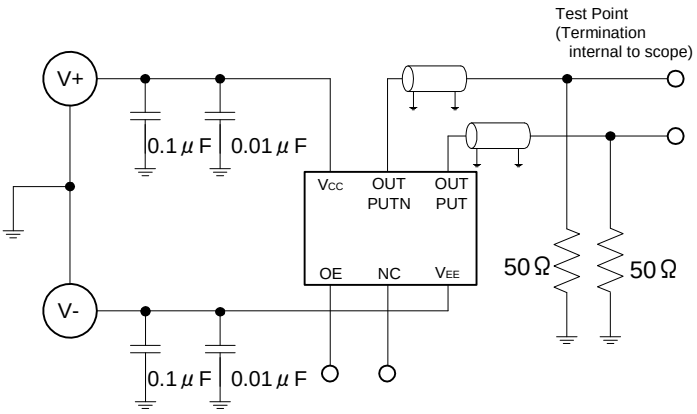
Taping



Land dimensions



Test Circuit



VCC	V+	V-
(VDC)	(VDC)	(VDC)
+3.3	+2.0	+1.3
+2.5	+2.0	-0.5

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