

# CRYSTAL CLOCK OSCILLATORS

## 1620L • 1630L SERIES

### ■ Features

- Satisfying part 15, class B of FCC EMI regulation.
- Directly drives the C-MOS IC.
- Compact and light weight : height 4.7mm, volume 0.4cm<sup>3</sup>, weight 1.5g.
- High reliability.  
(metal hermetic sealed crystal unit is inhoused)
- Applicable for reflow automatic mounting processes.
- Frequency range : 1MHz to 70MHz.
- Stand-by function for output : Tri-state output.
- Static electricity proof package : tape & reel.

### ■ Absolute Maximum Rating

Supply Voltage (V<sub>DD</sub>) -0.5~+7.0V DC

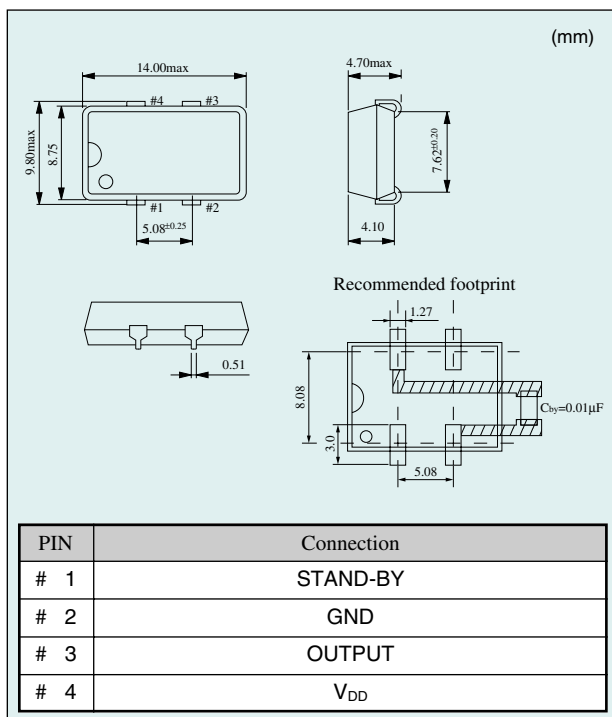
Storage Temperature Range -55~+125°C

Item		Model	1629L	1631L	1632L	1633L	1634L	1635L
Frequency Range	(MHz)		1~26	26~30	30~34	34~42	42~55	55~70
Frequency Stability	(×10 <sup>-6</sup> )		±100	±50, ±100				
Operating Temp. Range	(°C)		-20~+70					
Supply Voltage (V <sub>DD</sub> )	(V)		+5±10%					
Current Consumption	(mA) +5VDC, 25°C		8 (TYP) 15 (max)	15 (TYP) 20 (max)	18 (TYP) 25 (max)	22 (TYP) 30 (max)	25 (TYP) 35 (max)	
V <sub>OL</sub> max/V <sub>OH</sub> min	(V)		0.5/V <sub>DD</sub> -0.5 I <sub>OL</sub> =4mA I <sub>OH</sub> =-4mA					
Tr max/Tf max	(ns)		7/7 (0.1V <sub>DD</sub> ~0.9V <sub>DD</sub> )					
Duty Cycle	(%)		45~55 (at +1/2V <sub>DD</sub> )					
Fanout (gate)	C <sub>L</sub> (pF)		15					
Stand-by Function	Tri-state		Yes					

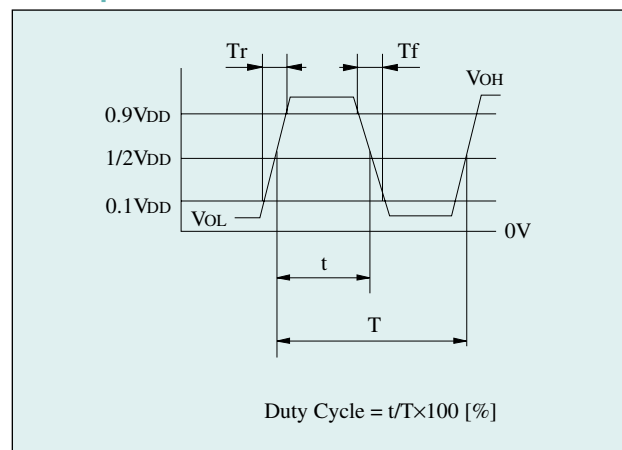
Note : Please study carefully regarding pattern layout and set shielding when you design your circuit with this device.

In addition to above listed, 1629L with freq. stability ±50×10<sup>-6</sup> is available. Please contact us if information is needed.

### ■ 1620L • 1630L Series Outline



### ■ Output Wave <C-MOS>



### ■ Stand-by Function <Tri-state>

# 1 pin input	# 3 pin output
H level (+3.5 Vmin) or open	Operating
L level (+0.8 Vmax)	High impedance