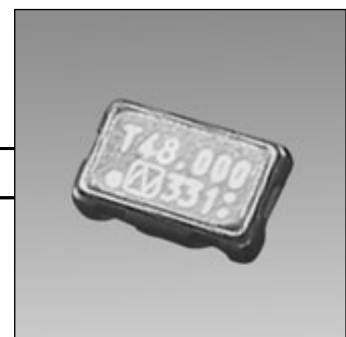


# CRYSTAL CLOCK OSCILLATORS

FOR USB

## 2725T SERIES



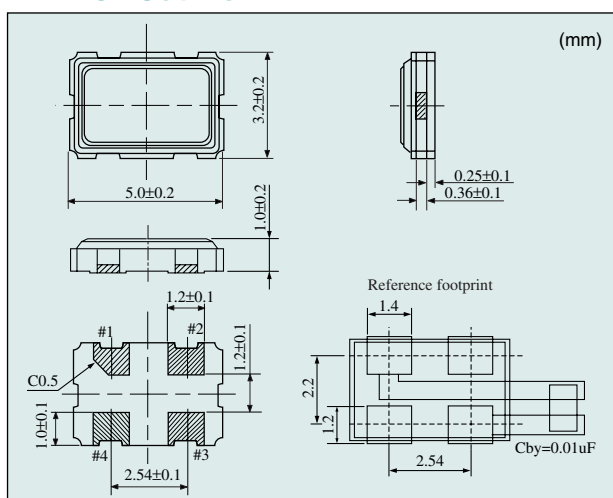
### Features

- Optimum oscillators for downsizing and power saving of USB 1.1 / 2.0 supported devices.
- Height compatible with slim IC package (TSSOP, TVSOP).
- Half the area and 1/3 the volume of 2500 Series package (5.0×3.2×1.0mm).
- Ultra light weight (0.06g).
- Current Consumption in stand-by state is 10μA or less.
- Embossed carrier tape and IR reflow are possible.
- Products that are lead-free.

■ Absolute Maximum Rating  
 Supply Voltage ( $V_{DD}$ )  $-0.5\sim+7.0V$  DC  
 Storage Temperature Range  $-40\sim+85^{\circ}C$

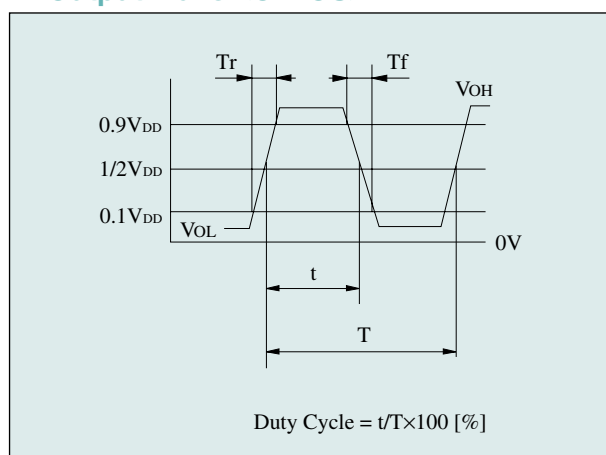
Item	Model	2725T
Output Level		C-MOS
Frequency Range	(MHz)	48
Frequency Stability /Operating Temp. Range	( $\times 10^{-6}$ )/( $^{\circ}C$ )	$\pm 50$ max / $-10\sim+75$
Temperature Stability	( $\times 10^{-6}$ )/( $^{\circ}C$ )	$\pm 50$ (max) / $+25$
Supply Voltage	(V)	$+3.0\pm 0.3$
Current Consumption (+3.0V, at 25 $^{\circ}C$ )		22mA max
	stand-by	10μA max
$V_{OL}$ max / $V_{OH}$ min	(V)	$0.1V_{DD} / 0.9V_{DD}$ $I_{OL}=4mA$ $I_{OH}=-4mA$
Tr max/Tf max	(ns)	5 / 5 ( $0.1V_{DD} \sim 0.9V_{DD}$ )
Duty Cycle	(%)	45 ~ 55 (at $1/2V_{DD}$ )
Fanout (gate)	TTL GATE	15
Stand-by Function	Tri-state	Yes

### 2725T Outline



PAD No.	Connection
# 1	STAND-BY
# 2	GND
# 3	OUTPUT
# 4	$V_{DD}$

### Output Wave <C-MOS>



### Stand-by Function <Tri-state>

# 1 input	# 3 output
H level ( $0.7V_{DD} \leq V_{IH} \leq V_{DD}$ ) or open	Operating
L level ( $+0.3 V_{DDmax}$ )	High impedance