SIWARD
Patience Confidence Concentric

TUNING FORK UNIT
SFO-3225

Applications

• Clock and Data Recovery

Features

• Small ceramic package / Dimensions (3.2x 2.5x 0.9)
• Low power consumption (CMOS/IC 1.5 μ A) with Tri-state function and wide range operating temperature (-40℃～+85℃)
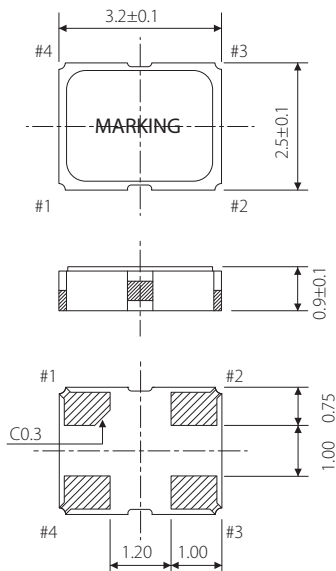• Start-up time below 1 sec. Supply Voltage 1.5～5.5V

Specifications

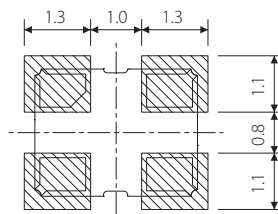| Model	SFO-3225	Condition
Output frequency	32.768 kHz	–
Storage temperature range	-55 ～ +125℃	–
Operating temperature range	-40 ～ +85℃	–
Frequency stability	(+5 ± 20) × 10^-6	Vdd=+3.3V,+25℃
Frequency Temp. characteristics	(-120~+10) × 10^-6	at-20～+70℃ , +25℃ as the reference
Power supply voltage	+1.5 ～+5.5V	STD:+3.3V± 10％
Current consumption	1.5 μ A max.	Vdd=+3.3V, No Load
	2.5 μ A max.	Vdd=+5.0V, No Load
Load	15pF max.	-
Output voltage level	V_{OL}: 0.4V max. / V_{OH}: (Vdd-0.4V) min.	CL=15pF, +25℃
Rise & Fall time	200ns max.	at 10％～90％Vdd CL=15pF
Duty cycle	40％～60％	at 1/2Vdd,CL=15pF, -40～+85℃
Oscillation start up time	1sec max.	Vdd=1.5～5.5V, -40～+85℃
Standby current consumption	1uA max.	25℃
Tri-state Function	–	#1: "H"→Output enable
		#1: "L"→Output disable (Hi-Z)

Package quantity: 3,000pcs max./Reel.

Outline and Dimensions [unit:mm]

Please connect the terminal CE at the High level when you do not use the oscillation stop function.

Terminal	Connection
#1	OE
#2	GND
#3	OUTPUT
#4	Vdd

Tri-state Pin	Output
High	Active
Low	Hi-impedance

Example of a Terminal Land Pattern