

DSO213AW TYPE SPXO PRELIMINARY SPECIFICATION

1. Device Name SPXO
2. Type DSO213AW
3. Frequency 25.000MHz
4. Absolute Maximum Value

	Item	Symbol	Rating	unit
1	Supply Voltage	V_{CC}	-0.6 ~ +4.5	V
2	Storage Temperature Range	T_{stg}	-40 ~ +85	°C

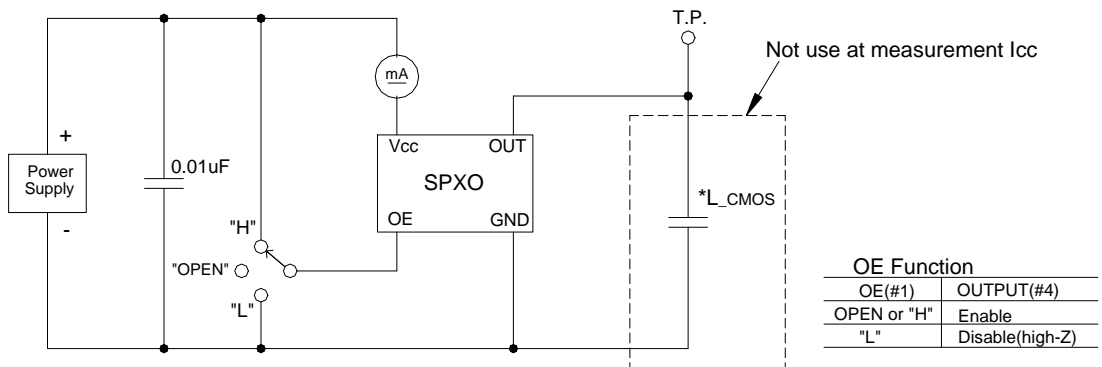
5. Recommended Operating Conditions

	Item	Symbol	min.	typ.	max.	unit
1	Supply Voltage	V_{CC}	+3.0	+3.3	+3.6	V
2	Operating Temperature Range	T_{opr}	-40	-	+85	°C
3	Output Load	L_{CMOS}	-	-	15	pF

6. Electrical Characteristics

($T_a=+25^{\circ}C$, $V_{CC}=+3.3V$ unless otherwise noted)

	Item	Symbol	Test Conditions	Limits			unit
				min.	typ.	max.	
1	Frequency Stability	f_{tol}	$V_{CC}=+3.3 \pm 0.3V$ $T_a=-40$ to $+85^{\circ}C$	-15	-	+15	ppm
2	Supply Current	I_{CC}	at No Load, #1pin: "H" or open	-	-	3.2	mA
	Standby Current	I_{-std}	#1pin: "L"	-	-	0.01	mA
3	Output Character						
	3-1.Symmetry	SYM	$0.5V_{CC}$ level	45	50	55	%
	3-2.Rise Time	t_r	$0.1V_{CC} \sim 0.9V_{CC}$	-	-	6	ns
	3-3.Fall Time	t_f	$0.9V_{CC} \sim 0.1V_{CC}$	-	-	6	ns
	3-4.Low Level	V_{OL}		-	-	$V_{CC} \times 0.1$	V
	3-5.High Level	V_{OH}		$V_{CC} \times 0.9$	-	-	V
	3-6.Output Load	L_{CMOS}		-	-	15	pF
4	Input OE						
	4-1.Output enable time	t_{pzi}		-	-	2	ms
	4-2.Output disable time	t_{plz}		-	-	200	ns
	4-3.Enable input	V_{IH}		$V_{CC} \times 0.8$	-	-	V
	4-4.Disable input	V_{IL}		-	-	$V_{CC} \times 0.2$	V

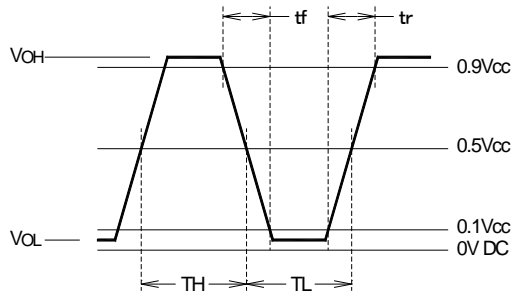


* L_{CMOS} : Total Fixture and Probe Capacitance

Fig1. Measurement Circuits

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$$SYM = \frac{TH}{TL+TH} \times 100 (\%)$$

Fig2. Output Waveform

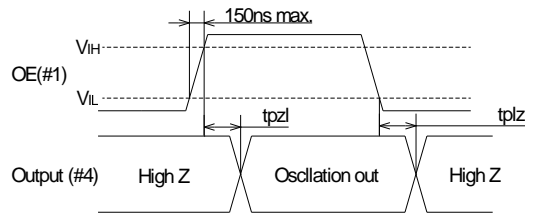
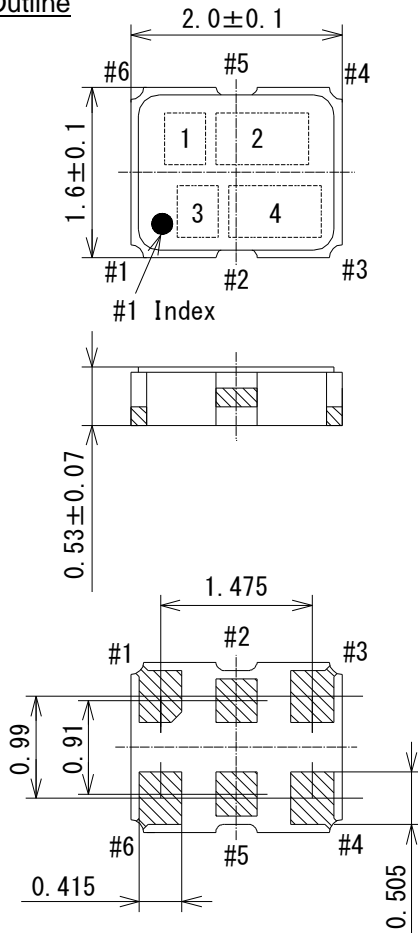


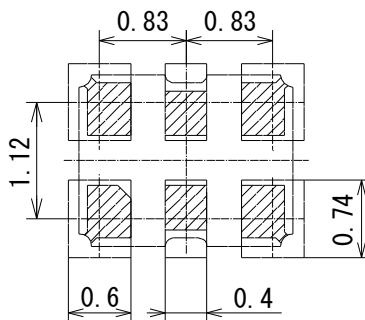
Fig3. Input output condition

7. Outline, Pin Connections

Outline



Land pattern layout(Example)



Pin Connections

Pin No.	Connection
#1	OE
#2	NC or GND.
#3	GND
#4	OUTPUT
#5	NC or GND.
#6	Vcc

#2、#5pin は、GND 接続を推奨いたします。

Marking

- (1) Model Code W
- (2) Frequency 25.0(MHz, 4digits)
- (3) Logo D
- (4) Lot No. Year(1digit)+Week(2digits)
e.g. 2016/01/01 -> 601

unit: mm

Dimensional Tolerance: ±0.15

(Unless otherwise noted)

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