

## DSO221SR TYPE SPXO SPECIFICATION

1. Device Name           SPXO
2. Type                    DSO221SR
3. Frequency             4.9152MHz
4. Absolute Maximum Value

	Item	Symbol	Rating	Unit
1	Supply Voltage	V <sub>cc</sub>	-0.5 ~ +5.0	V
2	Storage Temperature Range	T <sub>stg</sub>	-40 ~ +85	°C

### 5. Recommended Operating Conditions

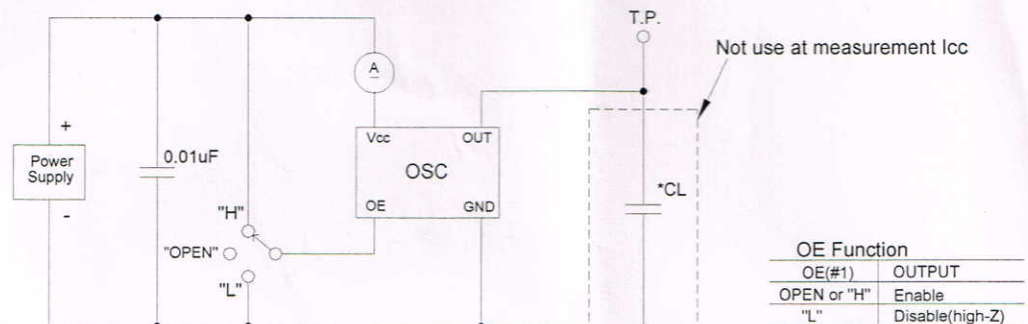
	Item	Symbol	min.	typ.	max.	Unit
1	Supply Voltage	V <sub>cc</sub>	+3.0	+3.3	+3.6	V
2	Operating Temperature Range	T <sub>opr</sub>	-40	-	+85	°C
3	Output Load	-	-	-	15	pF

### 6. Electrical Characteristics

(T<sub>a</sub>=+25 °C, V<sub>cc</sub>=+3.3V unless otherwise noted)

	Item	Symbol	Test Conditions	Limits			Unit
				min.	typ.	max.	
1	Frequency Tolerance	f <sub>tol</sub>	V <sub>cc</sub> =+3.3V ± 0.3V T <sub>a</sub> =-40 ~ +85 °C	-50	-	+50	ppm
2	Supply Current	I <sub>cc</sub>	at No Load, #1pin: "H" or open	-	-	1.8	mA
	Standby Current	I <sub>-std</sub>	#1pin: "L"	-	-	10	μA
3	Output Character		15pF				
	3-1.Symmetry	SYM	0.5V <sub>cc</sub> level	45	50	55	%
	3-2.Rise Time	t <sub>r</sub>	0.1V <sub>cc</sub> ~ 0.9V <sub>cc</sub>	-	-	5	ns
	3-3.Fall Time	t <sub>f</sub>	0.9V <sub>cc</sub> ~ 0.1V <sub>cc</sub>	-	-	5	ns
	3-4.Low Level	V <sub>OL</sub>		-	-	V <sub>cc</sub> -0.1	V
	3-5.High Level	V <sub>OH</sub>		V <sub>cc</sub> -0.9	-	-	V
4	Input OE						
	4-1.Output enable time	t <sub>PZL</sub>		-	-	1	ms
	4-2.Output disable time	t <sub>PLZ</sub>		-	-	150	ns
	4-3.Enable input	V <sub>IH</sub>		V <sub>cc</sub> -0.8	-	-	V
	4-4.Disable input	V <sub>IL</sub>		-	-	V <sub>cc</sub> -0.2	V

\* Fig1. Measurement Circuits

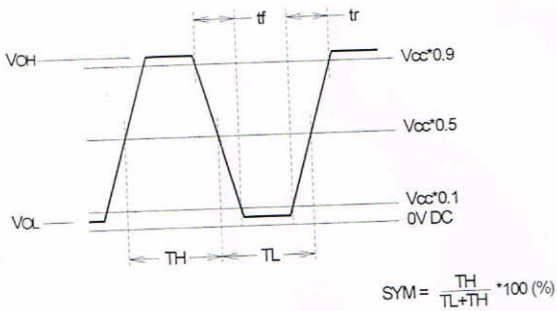


\*CL: Total Fixture and Probe Capacitance

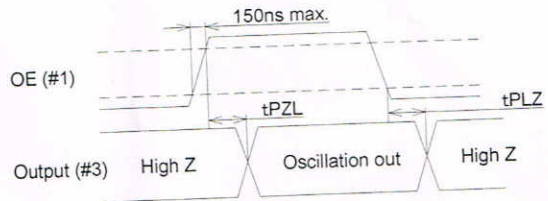
Date	Spec.NO	Rev.	Remark	Page.
2015/03/26	ZZ05006	-	-	1/2

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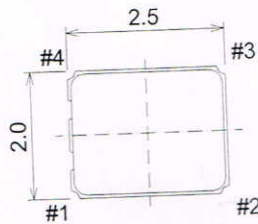
\* Fig2. Output Waveform



\* Fig3. Input output condition



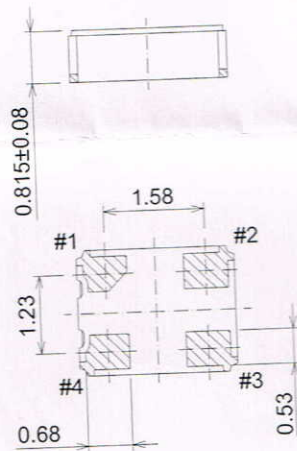
## 7. Outline, Pin Connections



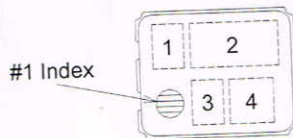
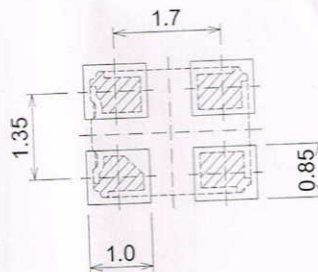
### Pin Connections

Pin No.	Connection
#1	OE(Output Enable)
#2	GND
#3	Output
#4	Vcc

Tolerance:  $\pm 0.15$   
unit: mm



### (Land Pattern ( Reference ) ) <Top View>



- 1.Type : R
- 2.Nominal Frequency : 4.91
- 3.KDS LOGO(D)
- 4.Lot No. refer to 【Lot No.】

### 【Lot No.】

Year: Last digit of the year  
Month: Alphabet assign below

Year	X1	X2	X3	X4	X5	X6	X7	X8	X9	X0
Symbol	1	2	3	4	5	6	7	8	9	0

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Symbol	A	B	C	D	E	F	G	H	J	K	L	M

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2015/03/26	ZZ05006	-	-	2/2

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