

DSO321SR TYPE SPXO SPECIFICATION

1. Device Name SPXO
2. Type DSO321SR
3. Frequency 38.400MHz
4. Absolute Maximum Value

	Item	Symbol	Rating	Unit
1	Supply Voltage	V_{CC}	-0.5 to +5.0	V
2	Storage Temperature Range	T_{stg}	-40 to +85	deg.C

5. Recommended Operating Conditions

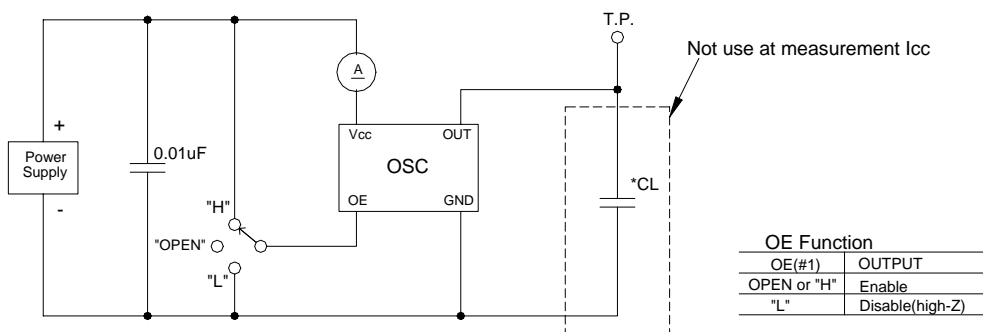
	Item	Symbol	min.	typ.	max.	Unit
1	Supply Voltage	V_{CC}	+3.0	+3.3	+3.6	V
2	Operating Temperature Range	T_{opr}	-10	-	+70	deg.C
3	Output Load	-	-	-	15	pF

6. Electrical Characteristics

($T_a=+25\text{deg.C}$, $V_{CC}=+3.3\text{V}$ unless otherwise noted)

	Item	Symbol	Test Conditions	Limits			Unit
				min.	typ.	max.	
1	Frequency Stability	f_{tol}	$V_{CC}=+3.3\text{V} \pm 0.3\text{V}$ $T_a=-10$ to $+70$ deg.C	-20	-	+20	ppm
2	Supply Current	I_{CC}	at No Load, #1pin:"H" or open	-	-	2.5	mA
	Standby Current	I_{std}	#1pin:"L"	-	-	0.01	mA
3	Output Character		15pF				
	3-1.Symmetry	SYM	0.5 V_{CC} level	45	50	55	%
	3-2.Rise Time	t_r	0.1 V_{CC} to 0.9 V_{CC}	-	-	5	ns
	3-3.Fall Time	t_f	0.9 V_{CC} to 0.1 V_{CC}	-	-	5	ns
	3-4.Low Level	V_{OL}		-	-	$V_{CC} \cdot 0.1$	V
	3-5.High Level	V_{OH}		$V_{CC} \cdot 0.9$	-	-	V
4	Input OE						
	4-1.Output enable time	t_{pzi}				1	ms
	4-2.Output disable time	t_{plz}				150	ns
	4-3.Enable input	V_{IH}		$V_{CC} \cdot 0.8$	-	-	V
	4-4.Disable input	V_{IL}		-	-	$V_{CC} \cdot 0.2$	V

* Fig1. Measurement Circuits

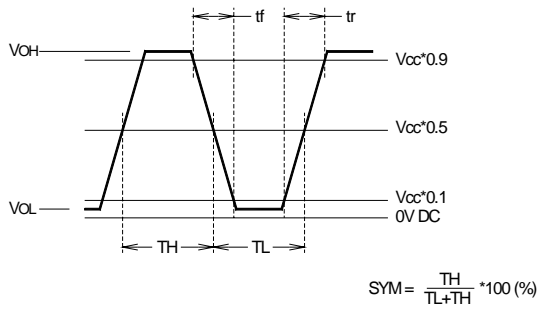


*CL: Total Fixture and Probe Capacitance

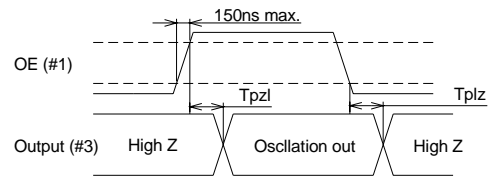
Date	Spec.NO	Rev.	Remark	Page.
2011/09/12	-	-	1XSR038400AR5	1/2

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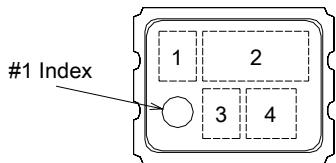
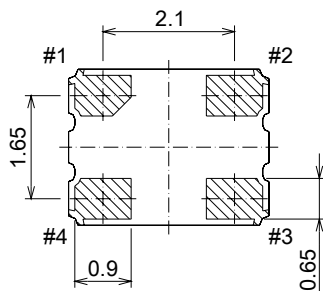
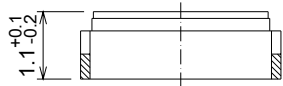
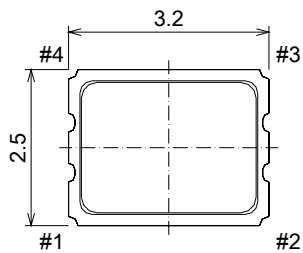
* Fig2. Output Waveform



* Fig3. Input output condition



7. Outline, Pin Connections

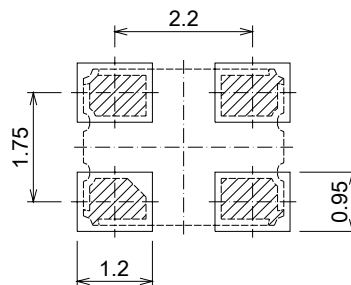


Pin Connections

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

Tolerance: ±0.15
unit: mm

(Land Pattern (Reference))
<Top View>



- 1.Type : R
- 2.Nominal Frequency : 38.4
- 3.KDS LOGO(D)
- 4.Lot No. refer to **【Lot No.】**

【Lot No.】

e.g. Jan. 2011 : 1A

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

Date	Spec.NO	Rev.	Remark	Page.
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