

1. Device Name SPXO
2. Model Name DSO211SXF
3. Nominal Frequency 25.000 MHz
4. Reliability AEC-Q200 Compliant
5. Absolute Maximum Ratings

	Item	Symbol	Rating		Unit
1	Supply Voltage	V _{CC}	-0.3	~ +4.5	V
2	Storage Temperature Range	T _{stg}	-40	~ +125	°C

6. Recommended Operating Conditions

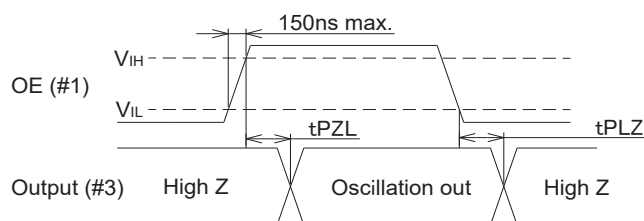
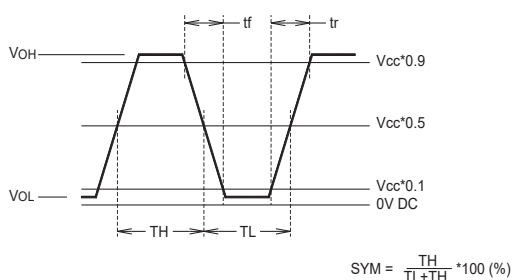
	Item	Symbol	min.	typ.	max.	Unit
1	Supply Voltage	V _{CC}	+1.6	+1.8	+2.25	V
			+2.25	+2.5	+2.75	V
			+2.6	+2.8	+3.0	V
			+3.0	+3.3	+3.6	V
2	Output Load	L _{CMOS}	-	-	15	pF
3	Operating Temperature Range	T _{use}	-40	-	+105	°C

7. Electrical Characteristics (Ta=+25°C, V_{CC}= +1.8V~+3.3V, L_{CMOS}= 15 pF, unless otherwise noted)

	Item	Symbol	Condition	Limits			Unit	Notes
				min.	typ.	max.		
1	Frequency Tolerance	f _{tol}	V _{CC} =+1.8 +1.8/-0.2V, Ta=-40~+105°C	-30	-	+30	ppm	1,2
2	Current Consumption	I _{CC}	V _{CC} =+1.8V	-	-	1.7	mA	
			V _{CC} =+2.5V	-	-	2	mA	
			V _{CC} =+2.8V	-	-	2.2	mA	
			V _{CC} =+3.3V	-	-	2.4	mA	
3	Stand-by Current	I _{std}	#1 pin "L" Level	-	-	10	μA	
4	Output Characteristics							
	1.Symmetry	SYM	V _{CC} ×0.5 Level	45	-	55	%	
	2.Rise Time / Fall Time	tr / tf	V _{CC} ×0.1 ~ V _{CC} ×0.9 Level	V _{CC} =+1.8V	-	5	ns	
				V _{CC} =+2.5V, +2.8V, +3.3V	-	3	ns	
	3.0 Level Voltage	V _{OL}		-	-	V _{CC} ×0.1	V	
5	4.1 Level Voltage	V _{OH}		V _{CC} ×0.9	-	-	V	
	Input OE							
	1.Output Enable Time	tPZL		-	-	2	ms	
	2.Output Disable Time	tPLZ		-	-	200	ns	
	3.0 Level Input Voltage	V _{IL}		-	-	V _{CC} ×0.3	V	
	4.1 Level Input Voltage	V _{IH}		V _{CC} ×0.7	-	-	V	

Notes

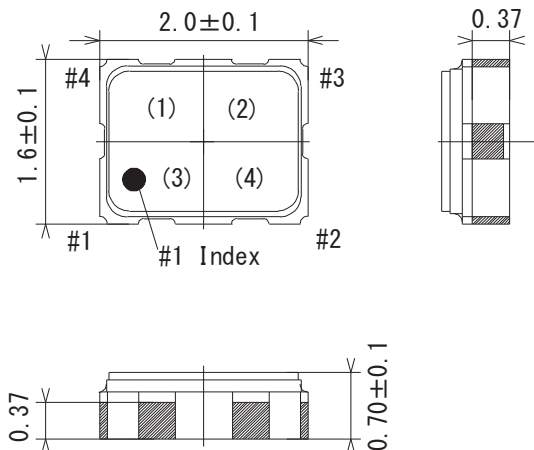
1. Ref. to nominal Frequency
2. Please leave after reflow in 8h or more at room ambient.



TITLE	REMARK		
DSO211SXF TYPE SPECIFICATION	P2025-3205		
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2025/12/24	7FF02500A3T	-	1 / 2

8. Outline, Pin Connections

Outline



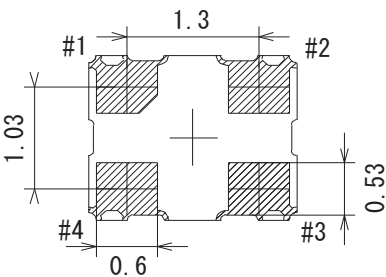
Pin Connections

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

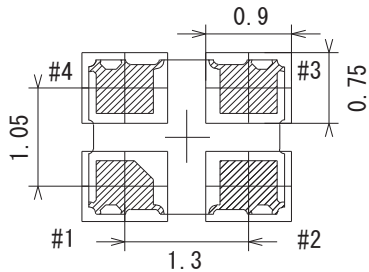
Marking

(1) Model code	XF
(2) Frequency	25.0
(3) Logo	D
(4) Lot No.	Year (1digit) +Week (2digits) e.g.2025/1/1 → 501

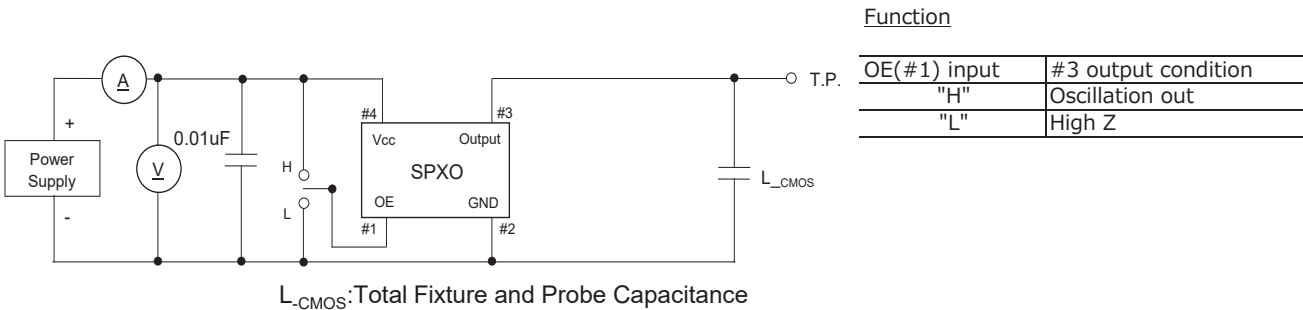
unit: mm
Dimensional Tolerance: ±0.1
(Unless otherwise noted)



Land pattern layout (Example)



9. Measurement Circuit



Function

OE(#1) input	#3 output condition
"H"	Oscillation out
"L"	High Z

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