

1. Device Name SPXO
2. Model Name DSO211SXF
3. Nominal Frequency 125.000 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}	+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}= +2.5V~+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} =+2.5 +1.1/-0.25V, Ta=-40~+105°C	-30	-	+30	ppm	1,2
2	Current Consumption	I _{CC}	At No Load	V _{CC} =+2.5V			8	mA
				V _{CC} =+2.8V			9	mA
				V _{CC} =+3.3V			10	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	t _r	V _{CC} ×0.1 ~ V _{CC} ×0.9 Level	-	-	3	ns	
	3.Fall Time	t _f	V _{CC} ×0.1 ~ V _{CC} ×0.9 Level	-	-	3	ns	
	4.0 Level Voltage	V _{OL}		-	-	V _{CC} ×0.1	V	
5	Input OE							
	1.Output Enable Time	t _{PZL}		-	-	2	ms	
	2.Output Disable Time	t _{PLZ}		-	-	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.

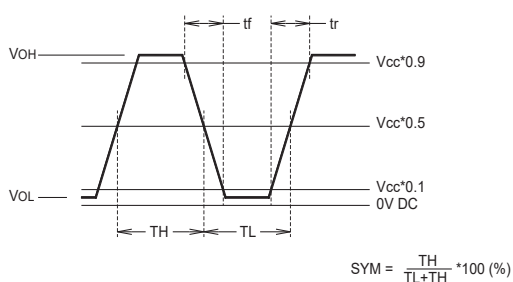


Fig.1 Output Waveform

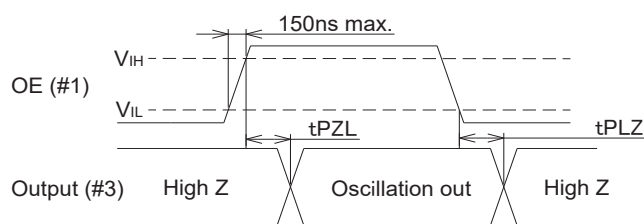
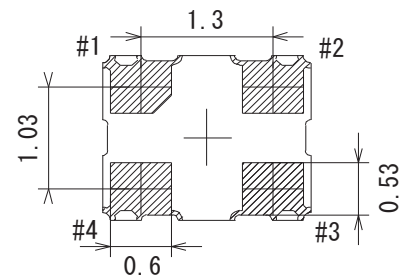
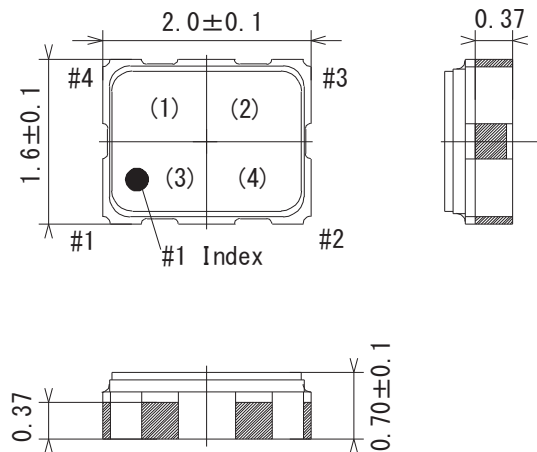


Fig.2 Input output condition

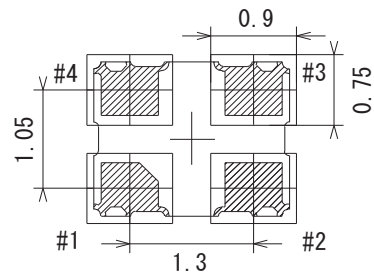
TITLE DSO211SXF TYPE SPECIFICATION	REMARK P2025-3209		
DATE 2025/12/23	SPEC. No. 7FF12500A0V	REV. -	PAGE 1 / 2

8. Outline, Pin Connections

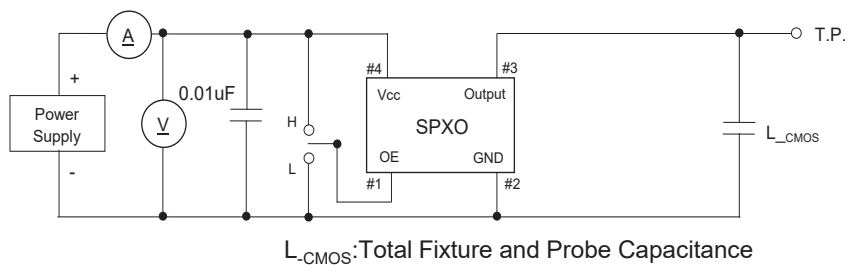
Outline



Land pattern layout (Example)



9. Measurement Circuit



L_{CMOS}:Total Fixture and Probe Capacitance

Function

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

Pin Connections

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

Marking

(1) Model code	XF
(2) Frequency	125.
(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)

TITLE
DSO211SXF TYPE SPECIFICATION

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