1. Device Name SPXO
2. Type DE2520AJ
3. Frequency 156.250MHz
4. Output Level LVDS
5. Absolute Maximum Value

	Item	Symbol	Rating	unit
1	Supply Voltage	V_{CC}	-0.3~+4.5	V
2	Storage Temperature Range	$T_{_STG}$	-40~+105	°C

6. Recommended Operating Conditions

	Item	Symbol	min.	typ.	max.	unit
1	Supply Voltage	V_{CC}	+3.135	+3.3	+3.465	V
2	Operating Temperature Range	$T_{_use}$	-40	-	+105	°C
3	Load Resistance	Load-R	100Ω(Output-OutputN)			

7. Electrical Characteristics (Ta=+25°C, V_{CC}=+3.3V,Output Load=100Ω unless otherwise noted)

	Item	Symbol	Condition	Limits			unit	Notes
				min.	typ.	max.		
1	Frequency Tolerance	f_tol	V_{CC}=+3.3V±0.165V,Ta=-40 to +105°C	-20	-	+20	ppm	
2	Current Consumption	I_{CC}	#1pin(OE)="OPEN" or "H"	-	-	25	mA	
3	Stand-by Current	$I_{_std}$	#1pin(OE)="L"	-	-	60	μA	
4	Output Character							
	1.Symmetry	SYM	1/2×Vopp	45	-	55	%	
	2.Rise Time	tr	20 to 80% Vopp	-	-	0.35	ns	
	3.Fall Time	tf	20 to 80% Vopp	-	-	0.35	ns	
	4.Differential Output	V_{OD1}, V_{OD2}		400	-	800	mV	
		⊿V_{OD}	⊿V_{OD}=ABS(V_{OD1}-V_{OD2})	-	-	50	mV	
	5.Offset Voltage	V_{OS}	Output, OutputN Offset Voltage	1.15	-	1.35	V	
		⊿V_{OS}	Magnitude Change V_{OS}	-	-	50	mV	
	6.Out Swing	V_{opp}		0.8	-	1.6	V	
5	Input OE							
	1. Output Enable time	tPZL		-	-	500	ns	
	2. Output Disable time	tPLZ		-	-	100	ns	
	3. Input Voltage "H"	VIH		0.8×V_{CC}	-	-	V	
	4. Input Voltage "L"	VIL		-	-	0.2×V_{CC}	V	
6	Phase Jitter	Tpj	fo offset:12kHz～20MHz	-	-	80	fs	

Notes

The contents of this document are subject to change without notice.When purchasing or using our products, please check the latest information with our sales department in advance.

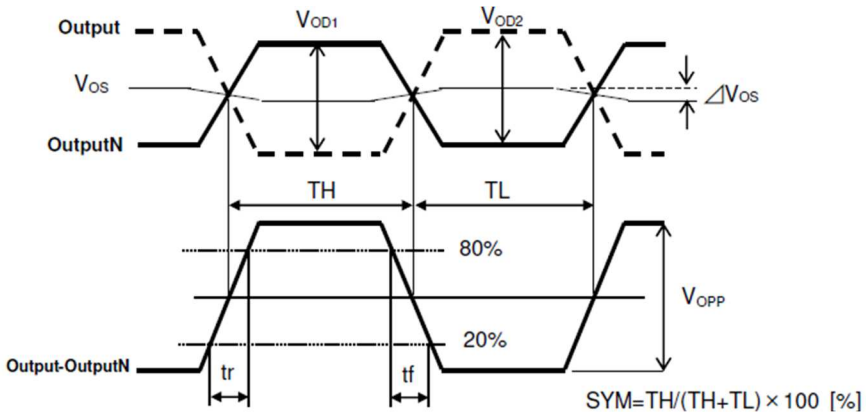
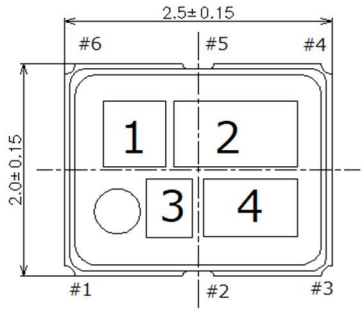


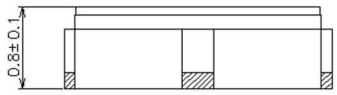
Fig.1 Measurement Level

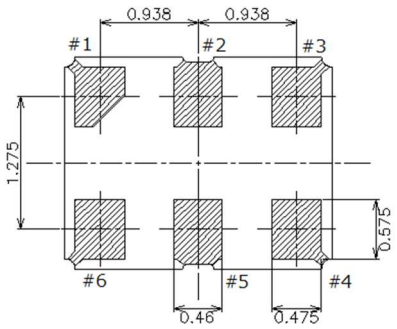
TITLE	Remark		
DE2520AJ TYPE SPECIFICATION(Preliminary)	P2026-1033		
Date	Spec. No.	Rev.	Page
2026/04/21	7UE15625A04	-	1/2

8. Outline, Pin Connections

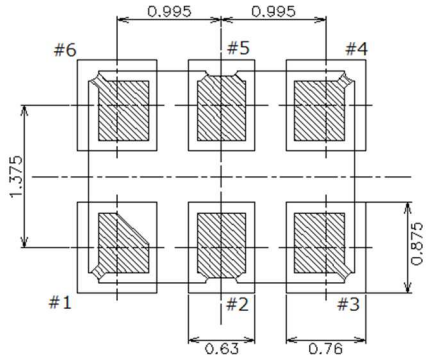
Outline







Land pattern layout (Example)



Pin Connections

Pin No.	Connection
#1	OE
#2	Do Not Connect
#3	GND
#4	Output
#5	OutputN
#6	Vcc

Function

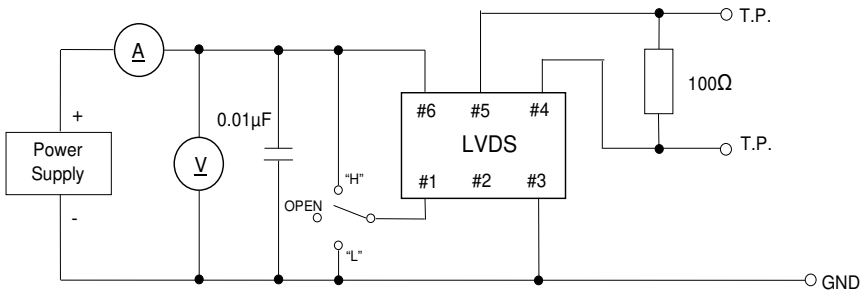
OE(#1) input	Output condition
OPEN or "H"	Oscillation out
"L"	High Z

Marking

1. Type : EJ
2. Frequency : 156. (MHz, 4digits)
3. Logo : ◗
4. Date code : Year (1digit) +Week (2digits)
   e.g.2026/1/1 → 601

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

9. Measurement Circuit



TITLE	Remark		
DE2520AJ TYPE SPECIFICATION(Preliminary)	P2026-1033		
Date	Spec. No.	Rev.	Page
2026/04/21	7UE15625A04	-	2/2