

1. Device Name TCXO
2. Model Name DSB321SDN
3. Nominal Frequency 25.000 MHz
4. Mass 0.03g max.
5. Absolute Maximum Ratings

	Item	Symbol	Rating	unit
1	Supply Voltage	V _{CC}	-0.3~+4.6	V
2	Storage Temperature Range	T _{STG}	-40~+85	°C

6. Recommended Operating Conditions

	Item	Symbol	min.	typ.	max.	unit
1	Supply Voltage	V _{CC}	+3.135	+3.3	+3.465	V
2	Load Impedance (resistance part) (parallel capacitance)	L _{LOAD_R}	9	10	11	kΩ
		L _{LOAD_C}	9	10	11	pF
3	Operating Temperature Range	T _{OPR}	-30	-	+85	°C

7. Electrical Characteristics

(T_A=-30~+85°C, L_{LOAD_R}/C=10kΩ//10pF, V_{CC}=+3.3V, unless otherwise noted)

	Item	Conditions	Limits			unit	Notes
			min.	typ.	max.		
1	Current Consumption		-	-	+2.0	mA	
2	Output Level		0.8	-	-	V _{P-P}	1
3	Symmetry	GND level (DC cut)	40/60	-	60/40	%	
4	Harmonics		-	-	-5	dBc	
5	Frequency Stability						
	1. Tolerance	After 2 times reflow Ref. to nominal frequency	-	-	±1.5	ppm	2,3
	2. vs Temperature	T _A =-30~+85°C Ref. to frequency (T _A =+25°C)	-	-	±0.5	ppm	
	3. vs Supply Voltage	V _{CC} =+3.3V±5%	-	-	±0.2	ppm	
	4. vs Load Variation	L _{LOAD_R} /C=(10kΩ//10pF)±10%	-	-	±0.2	ppm	
	5. vs Aging	T _A =Room ambient	-	-	±1.0	ppm/year	
6	Start Up Time	@90% of final V _{out} level	-	-	2.0	ms	

Notes

1. Clipped sine wave (DC-coupled)
2. T_A=+25°C
3. Please leave after reflow in 2h or more at room ambient.

TITLE
DSB321SDN TYPE SPECIFICATION

Remark

Date
2015/06/18

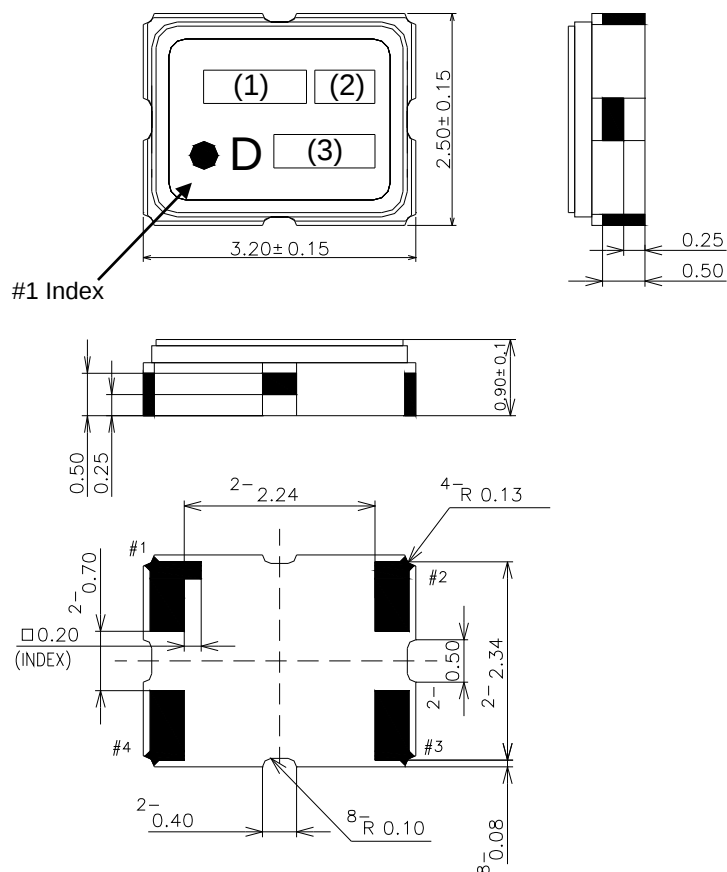
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8. Outline, Pin Connections

Outline



Pin Connections

Pin No.	Connection
#1	GND
#2	GND
#3	Output
#4	V _{CC}

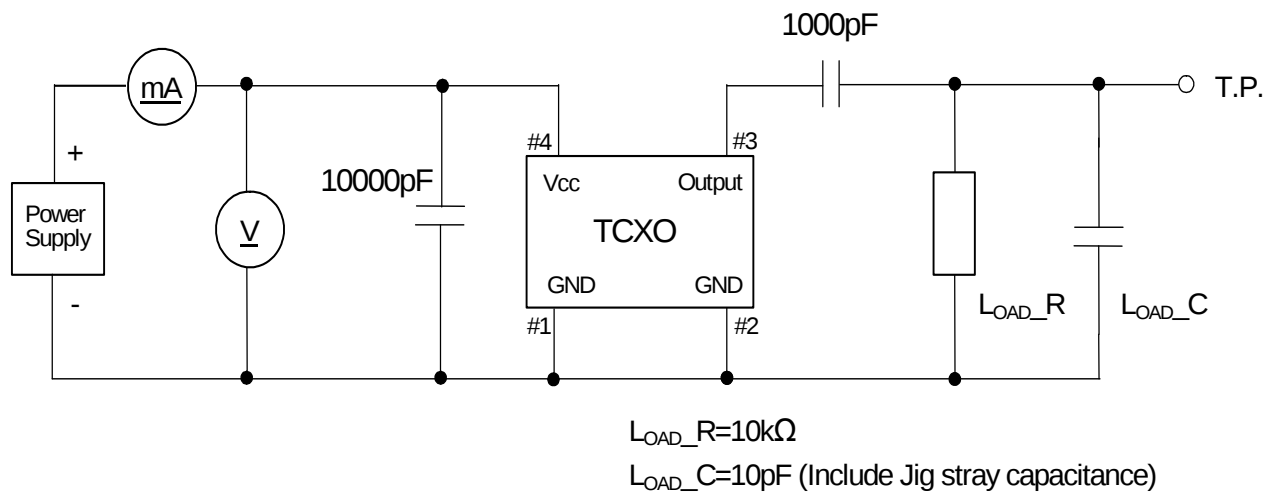
Marking

(1) Frequency	25.00 (MHz, 4digits)
(2) Model code	BN
(3) Date code	Year (1digit) +Week (2digits) e.g.2015/01/01→ 501

unit: mm

Dimensional Tolerance: ± 0.15
(Unless otherwise noted)

9. Measurement Circuit



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