1. Device Name TCXO
2. Model Name DSB221SDA
3. Nominal Frequency 26.000 MHz
4. Mass 0.02g 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}	+1.71	+1.8	+1.89	V
			+2.66	+2.8	+2.94	
2	Load Impedance (resistance part)	L_{OAD}_R	9	10	11	kΩ
	(parallel capacitance)	L_{OAD}_C	9	10	11	pF
3	Operating Temperature Range	$T_{_OPR}$	-40	-	+85	°C

7. Electrical Characteristics

(T_A=-40~+85°C, L_{OAD}_R//C=10kΩ//10pF, V_{CC}=+1.8V or +2.8V, unless otherwise noted)

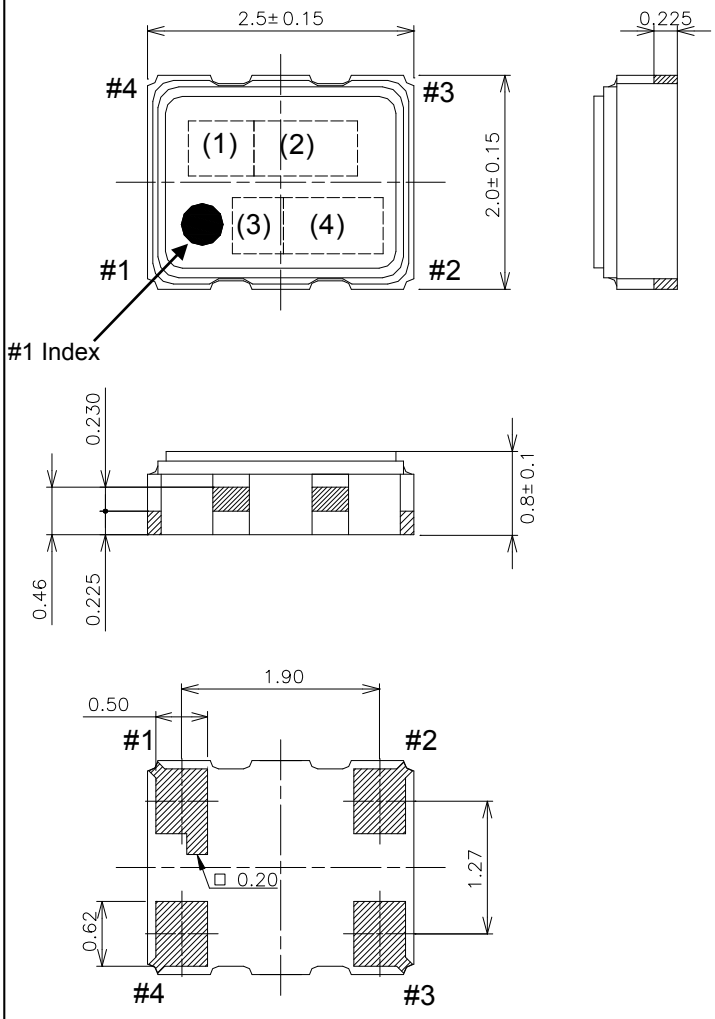
	Item	Conditions	Limits			unit	Notes
			min.	typ	max.		
1	Current Consumption		-	-	1.5	mA	
2	Output Level		0.8	-	-	V_{P-P}	1
3	Symmetry	GND level (DC cut)	40/60	-	60/40	%	
4	Frequency Stability						
	1.Tolerance	After 2 times reflow	-	-	±1.5	ppm	2,3
	2.vs Temperature	T_A=-30~+85°C	-	-	±0.5	ppm	4
		T_A=-40~-30°C	-	-	±1.0	ppm	4
	3.vs Hysteresys		-	-	±0.6	ppm	
	4.vs Supply Voltage	V_{CC}=+1.8V±5%,+2.8V±5%	-	-	±0.1	ppm	
	5.vs Load Variation	L_{OAD}_R//C=(10kΩ//10pF)±10%	-	-	±0.1	ppm	
	6.vs Aging	T_A=Room ambient	-	-	±1.0	ppm/year	
		T_A=Room ambient	-	-	±1.5	ppm/2years	
		T_A=Room ambient	-	-	±2.5	ppm/5years	
		T_A=Room ambient	-	-	±5.0	ppm/10years	
4	G Sensitivity	Gamma Vector of all 3axes from 30 to 1500Hz	-	-	±2.0	ppb/G	
5	Start Up Time	@90% of final V_{OUT} level	-	-	2.0	ms	
6	SSB Phase Noise	Relative to f0 level offset 1kHz	-	-	-130	dBc/Hz	

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

*This spec is Improved of TTFF characteristics.

8. Outline, Pin Connections

Outline



Pin Connections

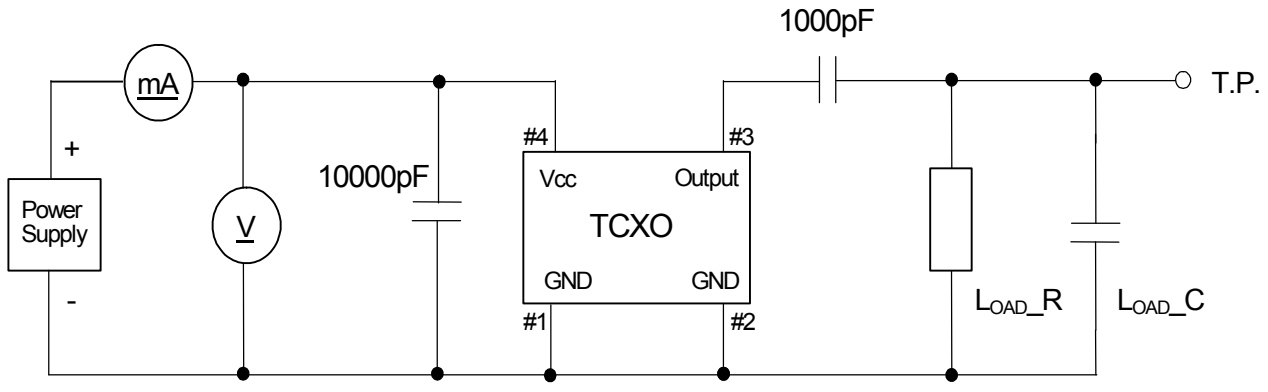
Pin No.	Connection
#1	GND
#2	GND
#3	Output
#4	V_{CC}

Marking

(1) Model code	H
(2) Frequency	26.0 (MHz, 3digits)
(3) Logo	D
(4) Date code	Year (1digit) +Week (2digits) e.g.2014/1/1 → 401

unit: mm
Dimensional Tolerance: ±0.15
(Unless otherwise noted)

9. Measurement Circuit



L_{OAD}_R=10kΩ

L_{OAD}_C=10pF (Include Jig stray capacitance)

TITLE	Remark		
DSB221SDA TYPE SPECIFICATION	T14-0469		
Date	Spec. No.	Rev.	Page
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