RoHS Compliant
Directive 2011/65/EU

SPECIFICATION

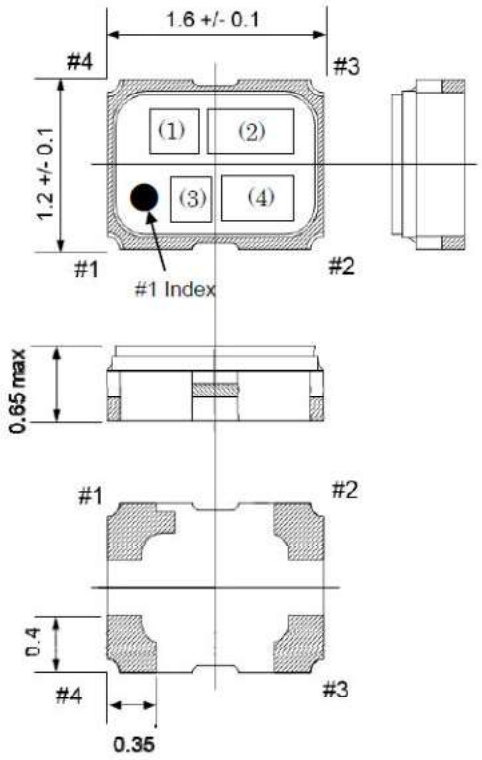
NT1612DP-32.768KHz

1. Electrical Parameters

MODEL： NT1612DP 32.768KHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		32.768		kHz	
	Output Waveform		CMOS			
	0 Level Voltage			10%V_{cc}	V	I_{OL}= 0.1mA
	1 Level Voltage	90%V_{cc}			V	I_{OH}= -0.1mA
	Symmetry	40		60	%	50% V_{cc} Level
	Start-up Time			0.5	s	90% of steady state frequency reached
	Rise/Fall Time			40	ns	10% to 90% V_{cc} Level
	Load		15		pF	
	vs. Temperature Range	-5		+5	×10^{-6}	T_A varied from -40℃ to 85℃, measurement referenced to frequency observed with T_A=25℃, V_{cc}=1.8V, O_{load}=15pF, temperature variable speed less than 2℃per minute.
	Aging Tolerance 1 Year	-5		+5	×10^{-6}	@25℃
Power Supply	Operating Current		1.1		μA	@25℃±2℃, V_{cc}=1.8V.No Load, Interval of temperature compensation : 0.5s
	Supply Voltage	1.62	1.8	1.98	V	
Operable Temperature		-40		+85	℃	
Storage Temperature		-40		+85	℃	

2. Mechanical Structure(mm)

Outline



Pin Connections

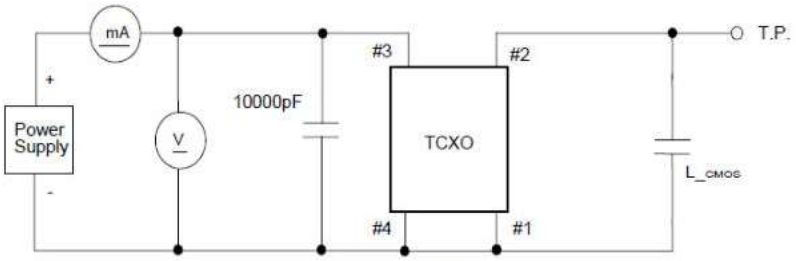
Pin No.	Connection
#1	GND
#2	Output
#3	V_{CC}
#4	GND

rking

Model code	TBD
Frequency	32 (kHz, 2digits)
Logo	D
Date code	Year (1digit) +Week (2digits)
	e.g.2019/1/1 → 901

t: mm
ıensional Tolerance: ±0.15
ıless otherwise noted)

3. Test Circuit



LOAD_C : Include jig stray capacitance

4. Output Waveform