Specification of Temperature Compensated Crystal Oscillators



1. NDK Part Number NT2016SA-32M-END4263A

2. NDK Specification Number END4263A **3. Type** NT2016SA

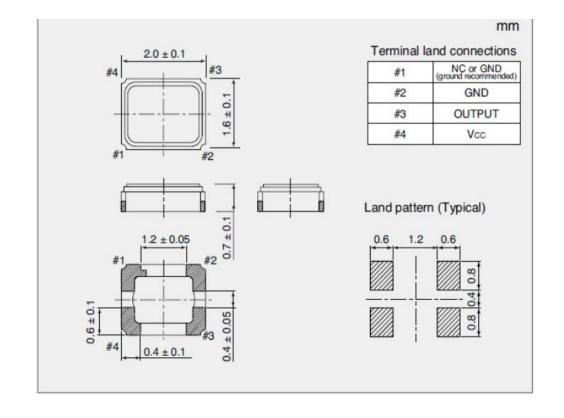
4. Absolute Maximum ratings

		Item		Ratings		Notes
			Min.	Max.	Units	
	1	Supply Voltage	-0.6	+4.6	V	-
	2	Storage temp. range	-40	+85	${\mathbb C}$	-

5. Electrical Specification

	Parameters	SYM.	Electrical Spec.			Notos	
	raidifieters		Min.	Тур.	Max.	Units	Notes
1	Nominal frequency	fnom	•	32		MHz	-
2	Supply voltage	Vcc	+1.8	+3.0	+3.0	V	-
3	Current consumption	-	-	-	2	mA	-
4	Output voltage	-	8.0	-	-	Vp-p	Clipped sine wave (DC-Coupling)
5	Operating temp. rage	_	-30	-	+85	$^{\circ}$	-
6	Load impedance (resistance part)	-	9	10	11	kΩ	-
7	Load impedance (parallel capacitance)	-	9	10	11	pF	-
8	DC-cut capacitor	1	ı	1	1		DC-cut capacitor of output is not put in TCXO.Please add DC-cut capacitor(1,000pF)in output line.
9	Frequency/ temperature characteristics	-	-2.5	-	+2.5	ppm	-30 to $+85$ $^{\circ}$ C(Based on frequency at $+25+/-2$ $^{\circ}$ C)
10	Frequency/ Voltage coefficient	-	-0.1	-	+0.1	ppm	+3.0V+/-5%
11	Frequency/ Load coefficient	-	-0.1	-	+0.1	ppm	(10kΩ//10pF)+/-10%
12	Frequency tolerance	-	-1.0	-	+1.0	nnm	at +/-25℃+/-2℃,Before reflow soldering, based on nominal frequency
13	Long-term frequency stabillity	-	-1.0	-	+1.0		year(at +25℃+/-2℃)
	Phase noise	-	_	-86		dBc/Hz	@10 Hz offset
		-	_	-114		dBc/Hz	@100 Hz offset
1.4		-	-	-137		dBc/Hz	@1 kHz offset
14		-	-	-149		dBc/Hz	@10 kHz offset
		-	-	-150		dBc/Hz	@100 kHz offset
							at +25℃+/-2℃
15	G Sensitivity	-	-	-	2	ppb/G	(30 Hz to 1500 Hz random vibration in each of 3-axis)
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6. Dimension



2017.10.13