

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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1. NDK Part Number NT2016SA-32M-END4263A

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

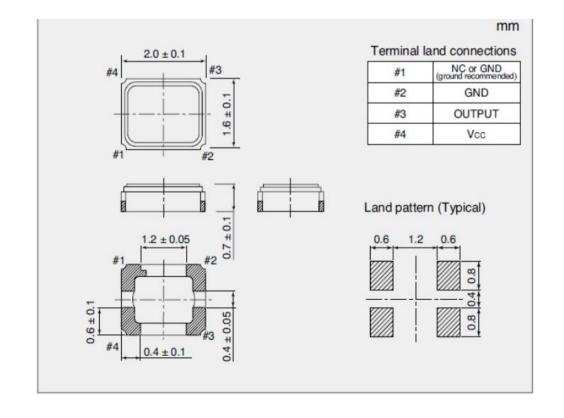
## 4. Absolute Maximum ratings

		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	
	raidiffeters		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
14		-	-	-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)
						-	

## 6. Dimension



2017.10.13