

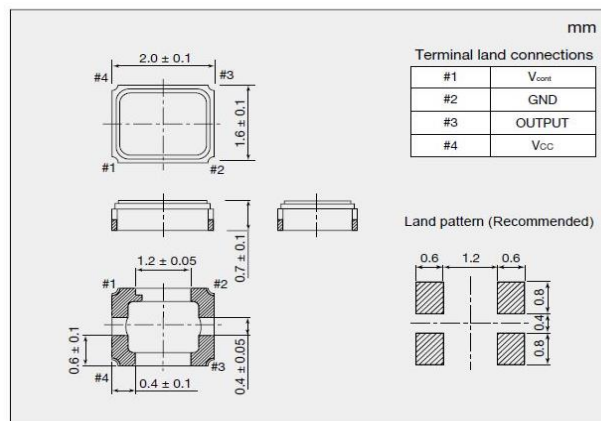
- 1. NDK Part Number NT2016SA-40M-ENA4203A
- 2. NDK Specification Number ENA4203A
- 3. Type NT2016SA
- 4. Absolute Maximum ratings

Item	Ratings			Units	Notes
	Min.	Max.			
1	Supply Voltage	-0.6	+4.6	V	-
2	Control voltage (Vcont)	-0.6 to Vcc +0.6, +4.6 max.		V	-
3	Storage temp. range	-40	+125	°C	-

5. Electrical Specification

Parameters	SYM.	Electrical Spec.			Units	Notes	
		Min.	Typ.	Max.			
1. Nominal frequency	fnom		40		MHz	-	
2. Supply voltage	Vcc	+3.13	+3.3	+3.47	V	(-Earth)	
3. Current consumption		-	-	1.7	mA	-	
4. Output voltage		0.8	-	-	Vp-p	Clipped sine wave (DC-Coupling)	
5. Operating temp. rage		-40	-	+85	°C	-	
6. Load impedance (resistance part)		9	10	11	kΩ	-	
7. Load impedance (parallel capacitance)		9	10	11	pF	-	
8. DC-cut capacitor		-	-	-	-	DC-cut capacitor of output is not put in TCXO. Please add DC-cut capacitor(1,000pF)in output line.	
9. 1. Frequency/temperature characteristics		-2.0	-	+2.0	ppm	-40 to +85°C (Based on frequency at +25±2°C) at control voltage (Vcont)=+1.65 V DC	
	2. Frequency/Temperature slope		-0.3	-	+0.3	ppm	-30 to +85 °C
			-0.8	-	+0.8	ppm	-40 to -30 °C
							Minimum of one measurement every 2 °C
	3. Frequency/Voltage coefficient		-0.1	-	+0.1	ppm	+3.3V±-5%
	4. Frequency/Load coefficient		-0.1	-	+0.1	ppm	(10kΩ/10pF)±-10%
5. Frequency tolerance		-2.0	-	+2.0	ppm	at ±-25°C±-2°C, after 2times reflow soldering, based on nominal frequency at control voltage (Vcont)=+1.65 V DC	
		-1.0	-	+1.0	ppm	year	
6. Long-term frequency stability		-5.0	-	+5.0	ppm	10 years	
10. External adjustment	1. Control voltage (Vcont)	+0.15	+1.65	+3.15	ppm		
	2. Frequency control range	-13.0	-	-0.8	ppm	Vcont=+0.15 V based on frequency at (Vcont) = +1.65 V DC	
						Vcont=+3.15 V	
	3. Typical slope		7.0		ppm/V		
	4. Input impedance	500			kΩ		
5. Frequency change polarity					Positive		
11. Start-up time				5.0	ms	More than 90% of final output voltage	
12. Harmonic distortion				-10	dBc		
13. Spurious oscillations				-70	dBc		
14. Short-term frequency stability				1.0	ppb/G	τ=1 s	
15. G Sensitivity(at +25°C)			0.2	1.5	ppb/G	10 Hz to 1500 Hz random vibration in each of 3-axis	
16. Phase noise (Non-Vibration)(at +25°C)			-86		dBc/Hz	@10 Hz offset	
			-110		dBc/Hz	@100 Hz offset	
			-133		dBc/Hz	@1 kHz offset	
			-147		dBc/Hz	@10 kHz offset	
			-150		dBc/Hz	@100 kHz offset	
17. Phase noise (Vibration)(at +25°C) (10 Hz to 1500 Hz random vibration in each of 3-axis)			-82		dBc/Hz	@10 Hz offset	
			-98		dBc/Hz	@100 Hz offset	
			-119		dBc/Hz	@1 kHz offset	
			-144		dBc/Hz	@10 kHz offset	
			-147		dBc/Hz	@100 kHz offset	

6. Dimension



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