

1. NDK Part Number NT2016SA-40M-ENA4203A

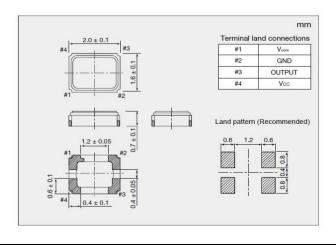
2. NDK Specification Number ENA4203A 3. Type
4. Absolute Maximum ratings NT2016SA

	Item		Ratings		Notes	
		Min.	Max.	Units	Notes	
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	$^{\circ}$	-	

5. Electrical Specification

. Lice	trical Specification		ı — —	Electric	al Spoc		ı		
	Parameters	SYM.	Electrical Spec. Min. Typ. Max. Units			Units	Notes		
1	Nominal frequency	fnom	1.1111.	40	indx.	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 way	e (DC-Coupling)	
5	Operating temp. rage	_	-40	-	+85	°C •	-	e (DC-Couping)	
	Load impedance				103	_			
6	(resistance part)	-	9	10	11	kΩ	-		
	Load impedance								
7	(parallel capacitance)	-	9	10	11	pF	=		
	(paramer capacitance)						DC-cut capacitor	of output	
8	DC-cut capacitor	-	-	-	-	-		O.Please add DC-cut	
	•						capacitor(1,000p	F)in output line.	
9	1. Frequency/		2.0	_	. 2.0		-40 to +85℃(Based on frequency at +25+/-		
9	temperature characteristics	-	-2.0	-	+2.0	ppm	2°C) at control voltage (Vcont)=+1.65 V DC		
		-	-0.3	-	+0.3	ppm	-30 to +85 °C		
	2. Frequency/Temperature slope	-	-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%		
	Frequency/Load coefficient	_	-0.1	_	+0.1	ppm	(10kΩ//10pF)+/-10%		
	4. Frequency/Load Coefficient		-0.1	_	+0.1	ppiii	at $+/-25$ °C $+/-2$ °C, after 2times reflow		
	5.Frequency tolerance	-	-2.0	-	+2.0	ppm	soldering, based on nominal frequency		
	3.1 requeries colerance							e (Vcont)=+1.65 V DC	
	6.Long-term frequency stabillity	-	-1.0	-	+1.0	ppm	year		
			-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	
	Z.i requeriey control runge		10.0		0.0	рр	Vcont=+3.15 V	at (Vcont) = +1.65 V DC	
	3. Typical slope			7.0		ppm/V	VCOIIC=13.13 V	dt (veolit) = 11.05 v De	
		-	500	7.0		kΩ			
	4. Input impedance		500			K22			
	5.Frequency change polarity	-					Positive		
11		-			5.0	ms	More than 90% of final output voltage		
	Harmonic distortion	-			-10	dBc			
	Spurious oscillations	-			-70	dBc			
14	Short-term frequency stability	-			1.0	ppb/G	T=1 s 10 Hz to 1500 Hz		
15	G Sensitivity(at +25°C)	-		0.2	1.5	ppb/G			
		_	_	-86		dBc/Hz	random vibration in each of 3-axis @10 Hz offset		
16		_	_	-110			@100 Hz offset @1 kHz offset @10 kHz offset @10 kHz offset @100 kHz offset		
	Phase noise	_	_	-133		,			
1	(Non-Vibration)(at +25°C)	-	-	-147		,			
		-	-	-150		,			
-		-	-	-82		,	@10 Hz offset		
	Phase noise	-	-	-98		,	@100 Hz offset		
17	(Vibration)(at +25°C)	-	-	-119		,	@1 kHz offset		
-	(10 Hz to 1500 Hz random vibration			-144			@10 kHz offset		
	1.	-	-	- 44					

6. Dimension



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

NDK:

NT2016SA-40.000MHZ-ENA4203A