Crystal Clock Oscillator NEW





NZ2016S Series

For OA, AV, and short-range wireless

■ Model name

NZ2016SA Frequency stability of ±50 x 10⁻⁶.

■ Application

• For mobile camera module, DVC, DSC, notebook PC, and PDA





Absolute maximum rating Power supply voltage (V_{DD}) -0.5 to +4.0~VStorage temperature range -55 to +125 °C

■ Features

- Ultra-compact and light. Dimensions and weight: 2.0 x 1.6 mm, 0.7 mm, and
- Power supply voltage of +3.3 V ideal for low-power and power-saving type products.
- Seam sealing gives high reliability.
- Wide frequency range: 1.5 to 80 MHz.
- Automatic mounting by taping and IR reflow (lead-free) are possible.

■ Specifications

Item Mod			Model	NZ2016SA							
Output level				C-MOS							
Frequency range *1			(MHz)	1.5 ≤ F < 10	10 ≤ F < 20	20 ≤ F < 30	30 ≤ F < 40	40 ≤ F < 50	50 ≤ F < 60	60 ≤ F < 70	70 ≤ F ≤ 80
Operating temperature range *2			(°C)	-40 to +85							
Frequency Stability			(×10 ⁻⁶)	±50							
Current consumption max	During operation	+3.3 V, 25 °C	(mA)	3.5	4.5	5.0	5.5	6.0	7.0	8.0	9.0
	During standby	+3.3 V, 25 °C	(μΑ)	10							
Vo∟ max/Voн min			(V)	0.1 Vdd/0.9 Vdd							
Tr max/Tf max (n			(ns)	5/5							
Duty Cycle min. to max. (%)			(%)	45 to 55							
Load (C _L) max (pF)			(pF)	15							
Oscillation start time max (ms)			4								
Standby function			Available (tristate)								

^{*1:} If you require a product with a frequency not given above, please contact us.

■ List of Codes for Placing an Order

List of Codes for Placing an Order	NSA3442F		
Power supply voltage [VDD]		+3.3±0.33	

^{*2:} If you require a product with an operating temperature range not given above, please contact us.

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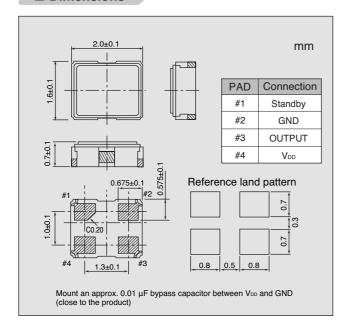




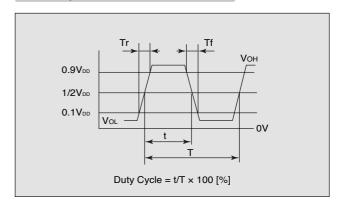
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■ Dimensions



■ Output Waveform <C-MOS>



■ Standby Function

#1 Input	#3 Output			
Level H (0.7 V _{DD} ≤ V _{IH} ≤ V _{DD}) or OPEN is selected.	Oscillation output ON			
Level L (V _{IL} ≤ 0.3 V _{DD}) is selected.	High impedance			

■ How to Specify an Order

When ordering our products, specify them with an "Ordering Code" that consists of the following:

Model name - Frequency (up to 9 digits) M - Number for specifying an order

Example: When ordering a product with model name: NZ2016SA, frequency: 20 MHz,

and power supply voltage: 3.3 V

Ordering Code: NZ2016SA - 20.000M - NSA3442F

If you have any queries concerning our standard frequencies and numbers for specifying orders, please contact our sales representatives or visit our homepage (http://www.ndk.com/).