



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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Crystal Clock Oscillator

NZ2520SHA

Automotive safety

Application

For Automotive safety (e.g., Millimeter wave radar or Image processing for self-driving)

Features

- High quality and high reliability design for Automotive safety
- Conforms to AEC-Q100/200.
- Supports a wide frequency range. (1.5 to 125MHz)
- Supports a wide temperature range from -40 to +125°C.
- Compact and light. Dimensions : 2.5 x 2.0 x 0.9 mm, weight : 0.02 g.
- Taped units enable automatic mounting IR Reflow (lead free) is possible.
- Lead-free.
- Output Specification : CMOS



Pb Free

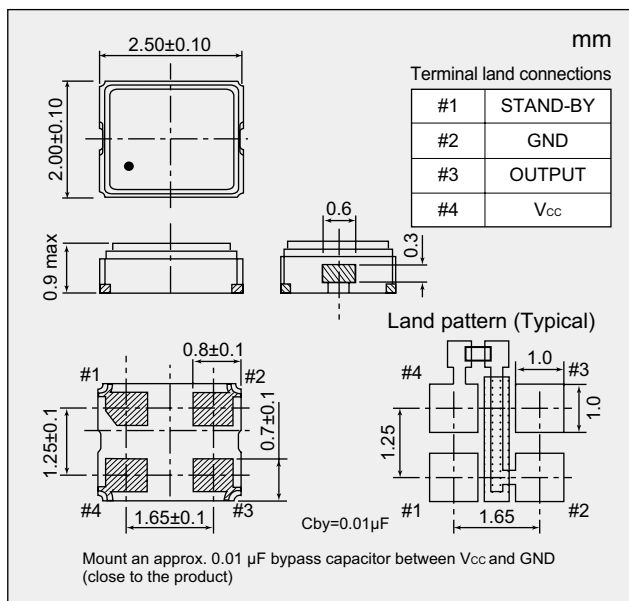
RoHS Compliant
Directive 2011/65/EU

Absolute maximum rating
Supply Voltage (V_{CC}) -0.3 to +4.0 V
Storage Temperature Range -55 to +125 °C

Specifications

Item	Model	NZ2520SHA	
Output Specification		CMOS	
Nominal Frequency Range	(MHz)	1.5 ≤ F ≤ 80	80 < F ≤ 125
Overall Frequency Tolerance	(×10 ⁻⁶)	±100	
Operating Temperature Range	(°C)	-40 to +125	
Supply Voltage	(V)	+1.8 to +3.3	
Current Consumption Max.	During Operation	+25 °C (mA)	2.5 to 9.0
	During Standby	+25 °C (μA)	9.5 to 20
V _{OL} Max. / V _{OH} Min.	(V)	0.1 V _{CC} / 0.9 V _{CC}	0.2 V _{CC} / 0.8 V _{CC}
Tr Max. / Tf Max.	+1.8 V	(ns)	6 / 6 (at 0.1 V _{CC} to 0.9 V _{CC})
	+2.5 to +3.3V		3 / 3 (at 0.2 V _{CC} to 0.8 V _{CC})
Symmetry Min. to Max.	(%)	45 to 55	
Load (C _L) Max.	(pF)	15	
Start-up Time Max.	(ms)	4	
Standby function		Available (Three-state)	

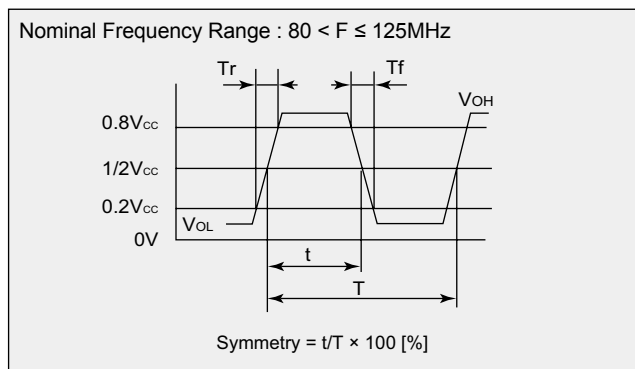
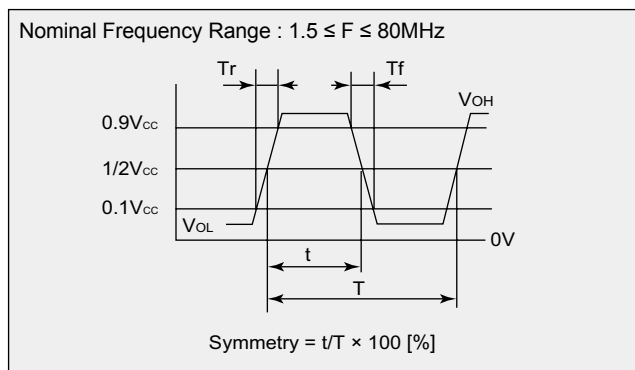
Dimensions



Standby Function

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

Output Waveform <CMOS>



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NZ2520SHA

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■ Specification Number

Nominal Frequency Range : $1.5 \leq F \leq 80\text{MHz}$

Overall Frequency Tolerance	Operating Temperature Range (°C)	Supply Voltage (V)			
		+1.8±0.18	+2.5±0.25	+3.0±0.3	+3.3±0.33
±100×10 ⁻⁶	-40 to +125	NSC5072A	NSC5072B	NSC5072C	NSC5072D

Nominal Frequency Range : $80 < F \leq 125\text{MHz}$

Overall Frequency Tolerance	Operating Temperature Range (°C)	Supply Voltage (V)			
		+1.8±0.10	+2.5±0.25	+3.0±0.3	+3.3±0.33
±100×10 ⁻⁶	-40 to +125	NSC5166A	NSC5166B	NSC5166C	NSC5166D

Please specify the model name, frequency, and specification number when you order products.

For further questions regarding specifications, please feel free to contact us.