Crystal Clock Oscillator



Standard Type

NZ3225SH

Application

For Automotive navigation system, Automotive audio equipment and Camera For Smartphone, Tablet computers, Notebook PC, PC card, etc. For Audioequipment and Wireless module

For Communication equipment for SDH/SONET, WiMAX, LTE, etc. and Base station

Features

- Supports a wide temperature range from -40 to +125°C.
- Compact and light. Dimensions : 3.2 x 2.5 x 0.9 mm, weight : 0.02 g.
- This crystal clock oscillator can support low frequencies (from 1.5MHz) not easily achieved with crystal units of the same size.
- Taped units enable automatic mounting IR Reflow (lead free) is possible.
- · Lead-free.



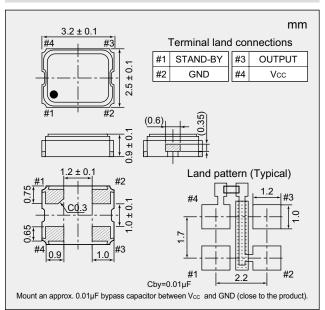
Free Directive 2011/65/EU Absolute maximum rating Supply Voltage (Vcc) -0.3 to +4.0 V

Storage Temperature Range -55 to +125 °C

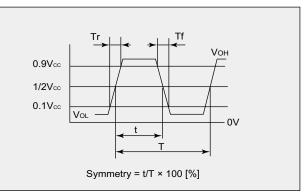
Specifications

Item			Model	NZ3225SH					
Output				CMOS					
Nominal Frequency Range			(MHz)	1.5 to 80					
Overall Frequency Tolerance			(×10⁻₀)	±100	±50	±50	±30	±20	
Operating Temperature Range			(°C)	-40 to +125	-40 to +105	-40 to +85	-10 to +70	-10 to +60	
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)	20					
Vol Max. / Voн Min.			(V)	0.1 Vcc / 0.9 Vcc					
Tr Max. / Tf Max. +1.8 V		(22)	6 / 6 (at 0.1 Vcc to 0.9 Vcc)						
TT Max. / TT M	lax.	+2.5 to +3.3V	(ns)		5 / 5 (at 0.1 Vcc to 0.9 Vcc)				
Symmetry Min. to Max.			(%)	45 to 55					
Load (CL) Max.			(pF)	15					
Start-up Time Max.			(ms)	4					
Standby function				Available (Three-state)					

Dimensions



Output Waveform <CMOS>



Standby Function

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

Crystal Clock Oscillator



Standard Type

NZ3225SH

Specification Number

Overall Frequency	Operating Temperature	Supply Voltage (V)								
Tolerance	Range (°C)	+1.8±0.18	+2.5±0.25	+3.0±0.3	+3.3±0.33					
± 100 × 10-6	-40 to +125	NSC5040A	NSC5040B	NSC5040C	NSC5040D					
± 50 × 10-6	-40 to +105	NSC5042A	NSC5042B	NSC5042C	NSC5042D					
± 50 × 10-6	-40 to +85	NSC5043A	NSC5043B	NSC5043C	NSC5043D					
± 30 × 10-6	-10 to +70	NSC5045A	NSC5045B	NSC5045C	NSC5045D					
± 20 × 10 ⁻⁶	-10 to +60	NSC5046A	NSC5046B	NSC5046C	NSC5046D					

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

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