

Crystal oscillator for 5G

NZ2016SH

Standard Type

Application

For 5G compatible device
 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

- Ultra compact and light. Dimensions : 2.0 x 1.6 x 0.7 mm, weight : 0.01 g.
- Low phase jitter
- Taped units enable automatic mounting IR Reflow (lead free) is possible.
- Lead-free.
- Conforms to AEC-Q200.

Pb Free

RoHS Compliant
 Directive 2011/65/EU
 Directive (EU) 2015/863

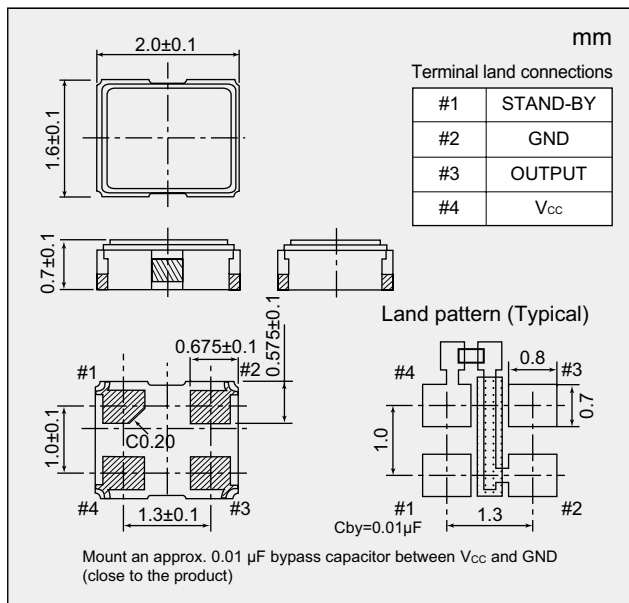


Absolute maximum rating
 Supply Voltage (V_{CC}) -0.3 to +4.0 V
 Storage Temperature Range -55 to +125 °C

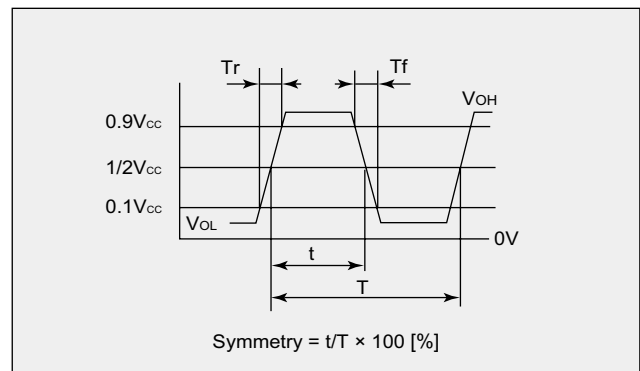
Specifications

Item		Model	NZ2016SH	
Output Specification			CMOS	
Nominal Frequency Range		(MHz)	25, 100	
Overall Frequency Tolerance		(×10 ⁻⁶)	±50	±50
Operating Temperature Range		(°C)	-40 to +105	-40 to +85
Supply Voltage		(V)	+1.8 to +3.3	
Current Consumption Max.	During Operation	+25 °C	4.0 to 5.0 (25MHz) 10.5 to 16 (100MHz)	
	During Standby	+25 °C	20	
V _{OL} Max. / V _{OH} Min.		(V)	0.1 V _{CC} / 0.9 V _{CC} (25MHz) 0.2 V _{CC} / 0.8 V _{CC} (100MHz)	
Tr Max. / Tf Max.	+1.8 V	(ns)	6 / 6 (at 0.1 V _{CC} to 0.9 V _{CC}) (25MHz)	
	+2.5 to +3.3V		5 / 5 (at 0.1 V _{CC} to 0.9 V _{CC}) (25MHz)	
	+1.8V, +2.5 to +3.3V		3 / 3 (at 0.2 V _{CC} to 0.8 V _{CC}) (100MHz)	
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



Output Waveform <CMOS>



Standby Function

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

Contact Us

Standard catalog specifications are listed for the products listed. Custom is available upon request.
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