

Crystal Clock Oscillator

NZ2016SD

Low Phase Noise Type

■ Application

- For High-quality-audio, Smartphone, Tablet computers, Wireless module, Notebook PC and DSC

■ Features

- Low phase noise make this product ideal for High quality audio.
- Phase noise
Fout±1kHz : Typ. -146dBc/Hz @+3.3V, +25°C, Fout=26MHz
Fout±100kHz : Typ. -157dBc/Hz @+3.3V, +25°C, Fout=26MHz
- Ultra-compact and light. Dimensions : 2.0 x 1.6 x 0.7 mm, weight : 0.01 g.
- Wide frequency range: 1.5 to 60 MHz.
- Automatic mounting by taping and IR reflow (lead-free) are possible.
- Lead-free.



Pb
Free

RoHS Compliant
Directive 2011/65/EU

Absolute maximum rating
Supply Voltage (V_{CC}) -0.6 to +6.0 V
Storage Temperature Range -55 to +125 °C

■ Specifications

Item			Model	NZ2016SD		
Output				CMOS		
Nominal Frequency Range		(MHz)		1.5 to 60		
Overall Frequency Tolerance		(×10 ⁻⁶)		±50	±30	±20
Operating Temperature Range		(°C)		-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)	1.8 to 6.5		
	During Standby	+25 °C	(μA)	10		
V _{OL} Max. / V _{OH} Min.		(V)		0.1 V _{CC} / 0.9 V _{CC}		
Tr Max. / Tf Max.		(ns)		6 / 6		
Symmetry Min. to Max.		(%)		45 to 55		
Load (C _L) Max.		(pF)		15		
Start-up Time Max.		(ms)		4		
Standby function				Available (Three-state)		

■ Characteristics

			F=26MHz	F=60MHz
+1.8V, +25 °C	Fout±1 kHz (Typ.)	(dBc/Hz)	-143	-139
	Fout±100 kHz (Typ.)		-154	-150
+2.5 to +3.3V, +25 °C	Fout±1 kHz (Typ.)	(dBc/Hz)	-146	-143
	Fout±100 kHz (Typ.)		-157	-156

