Crystal Units

Crystal Bridge to the Future

NX1610SA

For OA / AV / Mobile Communications

■ Features

Ultra compact, thin, and light weight tuning fork crystal unit.

- ●Ultra compact and thin. (1.6×1.0×0.45mm)
- ●Excellent electric performance optimum for mobile communications, OA (office automation) and AV (audiovisual) applications are exhibited.
- ●A surface-mount crystal oscillator. (Reflow soldering is possible.)
- ●RoHS compliant. These can meet the requirements of re-flow profiling using leadfree solder.



Pb Free

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

■ Specifications

Item \ Model	NX1610SA			
Standard	Standard			Optional
Nominal Frequency (kHz)	32.768			32.768
Operating Temperature Range (°C)	−40 to +85			−40 to +85 *1
Storage Temperature Range (°C)	−40 to +85			−40 to +85 *1
Level of Drive (μW)	0.1 (Max. 0.5)			0.1 (Max. 0.5) *1
Frequency Tolerance (25 ±3 °C)	±20 × 10^{-6}			±20 × 10^{-6}
Turning Point (°C)	+25 ± 5			+25 ± 5
Temperature Coefficient (/°C^2)	Max. −0.04 × 10^{-6}			Max. −0.04 × 10^{-6}
Load Capacitance (pF)	6.0	9.0	12.5	6.0 to 12.5
Equivalent Series Resistance (kΩ)	Max. 90			Max. 90 *1
Shunt Capacitance (pF)	Typ. 1.3 / Max. 1.6			Typ. 1.3 / Max. 1.6
Insulation Resistance (MΩ)	Min. 500			Min. 500
Specifications Number	STD-MUD-2	STD-MUD-3	STD-MUD-1	Refer to *2

Please specify the model name, frequency, and specification number when you order products.
For futher questions regarding specifications, please feel free to contact us.
*1 If you have any other requests, NDK will study it.
*2 Ordering information: Overtone Order Fundamental, the Operating Temperature Range, Frequency Tolerance, and Load Capacitance.
Ex. Model, Frequency (32.768000kHz 6digits),
S1:Fundamental - Operating Range(-40 to +85°C) - Frequency Tolerance(±20×10^{-6}) - Load Capacitance (9pF)
NX1610SA
32.768000kHz
S1-4085-20-9

■ Dimensions

mm

