

NX2012SA

For OA / AV / Mobile Communication / Automotives

■ Features

- Compact, thin, and light weight tuning fork crystal unit.
- Compact and thin. (2.0×1.2×0.55mm)
- 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.
- Conforms to AEC-Q200. (For Automotives)

Pb
Free

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



■ Specifications

Item \ Model	NX2012SA						
Standard	Standard						Optional
Main Application	For OA / AV / Mobile Communication			For Automotive			For OA / AV / Mobile Communication / Automotive
Nominal Frequency (kHz)	32.768						32.768
Operating Temperature Range (°C)	-40 to +85			-40 to +125			-40 to +85 *1
Storage Temperature Range (°C)	-40 to +85			-40 to +125			-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 (1/°C²)	Max. -0.04 × 10 ⁻⁶						Max. -0.04 × 10 ⁻⁶
Load Capacitance (pF)	6.0	9.0	12.5	6.0	9.0	12.5	6.0 to 12.5 *1
Equivalent Series Resistance (kΩ)	Max. 80			Max. 120			Max. 80 *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-MUB-3	STD-MUB-2	STD-MUB-1	STD-MUT-3	STD-MUT-2	STD-MUT-1	Refer to *2

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

For further 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)

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32.768000kHz

S1-4085-20-9

■ Dimensions

