

Quartz Crystal Units

NUS

[10.7×4.3×3.5 mm]

NUSS

[10.7×4.3×2.5 mm]

Thru-hole Type

Oscillation Mode

Fundamental /3rd

Frequency Range

3MHz~100MHz

Features

- AT-strip crystal inside. Optimized for low spurious
- Wide frequency range from 3MHz to 100MHz
- Low profile and cost effective
- Excellent frequency stability
- High stability and reliability with temperature
- The crystal package will withstand solder reflow (HC-49S SMD).
- Applications: Bluetooth, Security, IoT, Wireless communication Consumer electronic, PC peripherals, etc.



Standard Specifications

Item / Type	NUS (10.7×4.3×3.5 mm)	NUSS (10.7×4.3×2.5 mm)
Frequency Range	3~100 MHz(Fund. /3rd)	3~100 MHz(Fund. /3rd)
Load Capacitance	5pF~50pF, or specify	
Drive Level	10 μW typical (1000 μW max.)	
Frequency Tolerance (at 25°C)	± 10ppm, ±20ppm or ±30ppm (max.)	
Aging	±5ppm / Year (max.)	
Storage Temperature Range	-55°C~+125°C	

ESR (Equivalent Series Resistance)

NUS / NUSS (HC-49S /HC-49S SMD)			
Frequency Range	E.S.R	Frequency Range	E.S.R
3~3.4MHz	300 Ω max.	27~30MHz	100 Ω max.
3.5~6MHz	120 Ω max.	30~50MHz	80 Ω max.
6.1~10MHz	60 Ω max.	50~100MHz	60 Ω max.
10~14MHz	40 Ω max.		
14~30MHz	30 Ω max.		

Frequency stability Vs Operating temperature range

Temp. (°C)	ppm					
	±5	±10	±15	±20	±25	±30
-10~+60	×	○	○	○	○	○
-20~+70	×	▲	○	○	○	○
-40~+85	×	×	○	○	○	○

▲: Conditional
○: Available
×: Not available

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Outline Dimensions (Unit: mm)

