

# QUARTZ CRYSTALS FOR WIRELESS APPLICATIONS



- › JXS21 -WA
- › JXS22 -WA
- › JXS32 -WA

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## JXS21 -WA, JXS22 -WA and JXS32 -WA

Jauch announces the dedicated JXSxx -WA Quartz Crystal Series for Wireless Applications.

These crystals are available in standard packages 2016, 2520 and 3225 and at 14 special frequencies which are required to generate a pure and stable reference clock for many RF-transceivers and RF-ASICs.

Typical frequencies like 24.0 / 26.0 / 32.0 / 37.40 / 38.40 or 40.0 MHz are often used by RF-ASICs that support wireless standards like Bluetooth low Energy (BLE), Bluetooth Smart, Zigbee, ISM, LoRa, LPWAN or other standards being used in wireless applications within the world of IoT.

Due to their high frequency stability as well as their very low ESR these special crystals meet the high requirements that are essential for IoT and other wireless applications.

### KEY-FEATURES OF THE JXSXX -WA SERIES:

frequencies for IoT & wireless applications	16.0 / 19.20 / 20.0 / 24.0 / 25.0 / 26.0 / 27.120 / 30.0 / 32.0 / 37.40 / 38.40 / 40.0 / 48.0 / 52.0 MHz
lowest equivalent series resistance (ESR)	guarantees excellent compatibility with RF-ASICs
tight frequency tolerance	± 10ppm at +25°C
high frequency stability in temperature ranges	± 10ppm in -20°C ~ +70°C ± 15ppm in -40°C ~ +85°C ± 30ppm in -40°C ~ +105°C
lowest aging	± 1ppm 1st year, and very low long term aging
small ceramic/metal packages	2016 (2.0 x 1.6 x 0.45 mm) 2520 (2.5 x 2.0 x 0.55 mm) 3225 (3.2 x 2.5 x 0.65 mm)
EMI shielding possible	by grounded lid

### TYPICAL APPLICATIONS:

wireless applications
Internet of Things (IoT) and Industrial (IIoT)
Bluetooth / Bluetooth Low Energy (BLE) / Bluetooth Smart
ZigBee, ISM, WiFi / WLAN, LPWAN & more
telecommunication
wearables

