



actual size

SMD Quartz Crystal · JXS21-WA

- for wireless applications, 2.0 x 1.6 mm
- perfect reference crystal for wireless applications
- for IoT using BlueTooth, ZigBee, NFC and more
- high frequency stability and low ESR
- metal lid allows EMI shielding



RoHS compliant



Pb free



REACH compliant



Conflict mineral free

GENERAL DATA

TYPE	JXS21-WA
special frequencies for wireless applications	22 standard frequencies shown in ESR list (for other frequencies refer to general JXS21 datasheet)
frequency tolerance at 25 °C	±10 ppm*
load capacitance C_L	6 pF / 7 pF / 8 pF / 9 pF / 10 pF / 12 pF*
shunt capacitance C_0	< 3 pF
storage temperature	-40 °C ~ +105 °C
drive level max.	100 µW (10 µW recommended)
aging	< ± 1 ppm first year

* for different specs please ask for availability

TABLE 1: FREQUENCY STABILITY CODE

		± 10 ppm	±13 ppm	±15 ppm	±20 ppm	±25 ppm	±30 ppm
-20 °C ~ +70 °C	STD.	●		○	○	○	○
-30 °C ~ +85 °C	T(-30/+85)		○	○	○	○	○
-40 °C ~ +85 °C	T1		△	●	○	○	○
-40 °C ~ +105 °C	T2					△	●

● standard ○ available △ ask if available

ESR (SERIES RESISTANCE RS)

frequency in MHz	vibration mode	ESR max. in Ω	ESR typ. in Ω
16.0	fund. - AT	120	80
19.20	fund. - AT	120	80
20.0	fund. - AT	100	60
24.0	fund. - AT	80	40
25.0 / 26.0	fund. - AT	60	30
27.120 / 30.0	fund. - AT	60	25
32.0	fund. - AT	50	25
37.40 / 38.40	fund. - AT	40	25
40.0 / 48.0	fund. - AT	40	20
52.0 / 54.0	fund. - AT	40	20
55.20 / 59.970	fund. - AT	40	20
60.0 / 62.50	fund. - AT	40	20
64.0	fund. - AT	40	20
76.80	fund. - AT	40	20
80.0	fund. - AT	40	20

DIMENSIONS

#2-#4: connected to lid, preferably connect to GND crystal connection

in mm

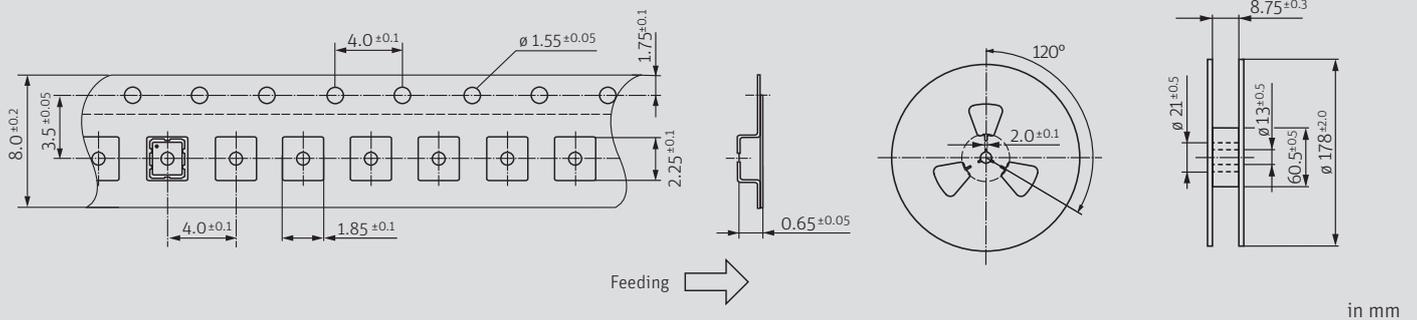
ORDER INFORMATION

Q	frequency	type	load capacitance	tolerance at 25 °C	stability vs. temp. range	option 1	option 2
Quartz	see frequencies in ESR list	JXS21	6 / 7 / 8 / 9 / 10 / 12 pF	10 = ±10 ppm std.	10 = ±10 ppm 13 = ±13 ppm 15 = ±15 ppm 20 = ±20 ppm 25 = ±25 ppm 30 = ±30 ppm	blank = -20 °C ~ +70 °C T(-30/+85) = -30 °C ~ +85 °C T1 = -40 °C ~ +85 °C T2 = -40 °C ~ +105 °C FU = for fundamental frequencies ≥ 20 MHz	WA = for wireless application

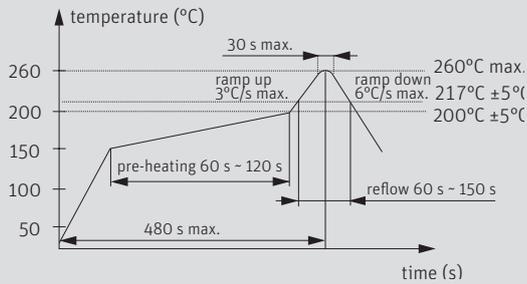
Example: Q 26.0-JXS21-8-10/15-T1-FU-WA-LF (Suffix LF = RoHS compliant / Pb free pins or pads)

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TAPING SPECIFICATION



REFLOW SOLDERING PROFILE



note: parts are also suitable for soldering systems with lead (Pb) content

LOAD CAPACITANCE CODES

- 6 pF: q
- 7 pF: m
- 8 pF: k
- 9 pF: n
- 10 pF: h
- 12 pF: a
- series: S

example 26.0 MHz / 8 pF: 26k00

* hand soldering temperature should not exceed 280 °C

MARKING

frequency with load capacitance code
company code / date code / internal code

date code: A ~ M: Jan. - Dec.

4: 2024 5: 2025 6: 2026 7: 2027 8: 2028 9: 2029

Jan.	Febr.	Mar.	Apr.	May	June
A	B	C	D	E	F
July	Aug.	Sept.	Oct.	Nov.	Dec.
G	H	J	K	L	M