

actual size

# SMD Quartz Crystal · JXS08

- 4 Pad Version, 1.0 x 0.8 mm
- ± 10 ppm type available
- high frequency stability and low ESR
- metal lid allows EMI shielding
- reflow soldering temperature: 260 °C max.



RoHS compliant



Pb free



REACH compliant



Conflict mineral free

GENERAL DATA	
TYPE	JXS08
standard frequencies	59.970 MHz / 76.80 MHz
frequency tolerance at 25 °C	±10 ppm / ±12 ppm / ±20 ppm
load capacitance $C_L$	6 pF / 8 pF standard (option: 7 pF / 9 pF / 10 pF)
shunt capacitance $C_0$	< 2 pF
storage temperature	-40 °C ~ +95 °C
drive level max.	100 µW (10 µW recommended)
aging	< ±3 ppm first year (option: < ±2 ppm first year for tol. ±10 ppm)

ESR (SERIES RESISTANCE $R_S$ )			
frequency in MHz	vibration mode	ESR max. in $\Omega$	ESR typ. in $\Omega$
59.970	fund. AT	80	35
76.80	fund. AT	80	35

more frequencies case-by-case, ask for availability

TABLE 1: FREQUENCY STABILITY VS. TEMPERATURE					
		±10 ppm	±12 ppm	±15 ppm	±20 ppm
-20 °C ~ +70 °C	STD.	○	○	○	○
-30 °C ~ +85 °C	T(-30/+85)		○	○	○
-40 °C ~ +85 °C	T1		△	○	○

○ available    △ case-by-case, ask if available

MARKING						
frequency with load capacitance code						
company code / date code						
date code: year/month; A ~ M: Jan. - Dec.; example: 5A = 2025 January						
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	

### DIMENSIONS

top view      side view      bottom view      crystal connection      pad layout      in mm

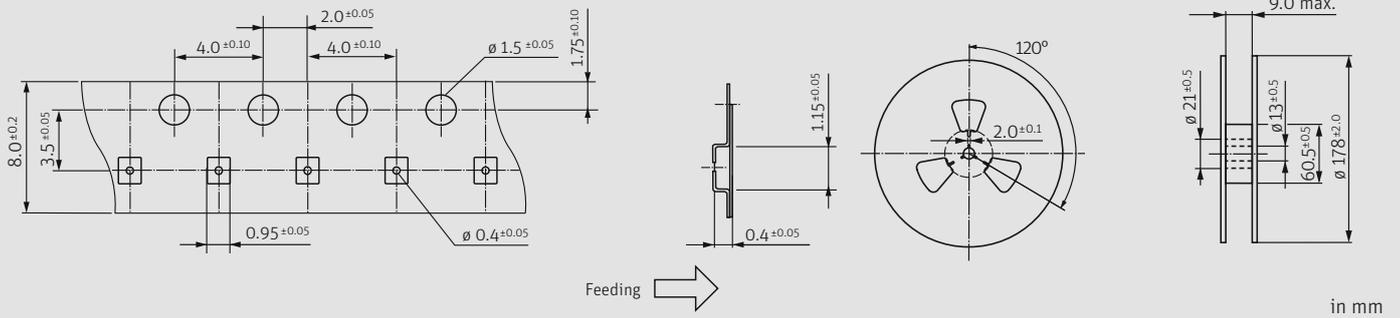
### ORDER INFORMATION

Q	frequency	type	load capacitance	tolerance at 25 °C	stability vs. temp. range	option	FU = fundamental mode
Quartz	40.0 ~ 80.0 MHz	JXS08	6 pF / 8 pF standard 7 pF / 9 pF / 10 pF	10 = ±10 ppm 12 = ±12 ppm 20 = ±20 ppm	10 = ±10 ppm 12 = ±12 ppm 15 = ±15 ppm 20 = ±20 ppm	blank = -20 °C ~ +70 °C T1 = -40 °C ~ +85 °C T (-30/+85) = -30 °C ~ +85 °C	

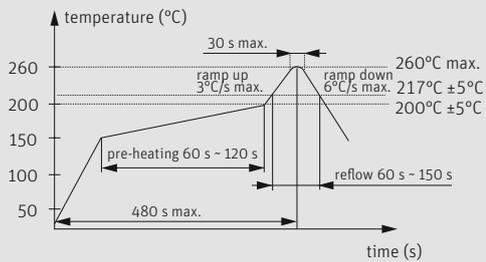
**Example: Q 76.80-JXS08-6-10/15-T1-FU-LF** (Suffix LF = RoHS compliant / Pb free)

# SMD Quartz Crystal · JXS08

## 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

example 40.0 MHz / 6 pF: 40q0