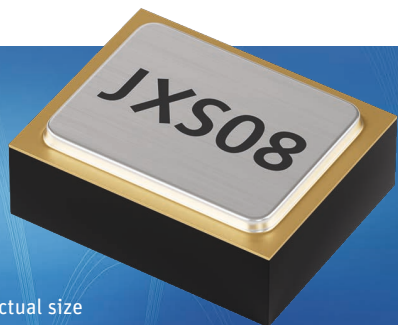




actual size

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 μ W (10 μ W recommended)
aging	< ± 3 ppm first year (option: < ± 2 ppm first year for tol. ± 10 ppm)

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

ESR (SERIES RESISTANCE RS)

frequency in MHz	vibration mode	ESR max. in Ω	ESR typ. in Ω
59.970	fund. AT	80	35
76.80	fund. AT	80	35

more frequencies case-by-case, ask for availability

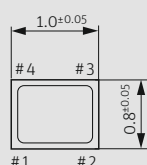
MARKING

frequency with load capacitance code
company code / date code

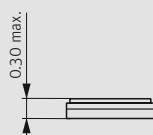
date code: year/month; A ~ M: Jan. - Dec.; example: 5A = 2025 January
4: 2024 5: 2025 6: 2026 7: 2027 8: 2028 9: 2029

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

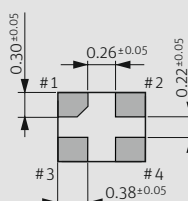
DIMENSIONS



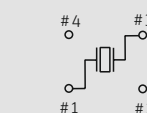
top view



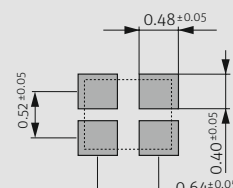
side view



bottom view



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



pad layout

in mm

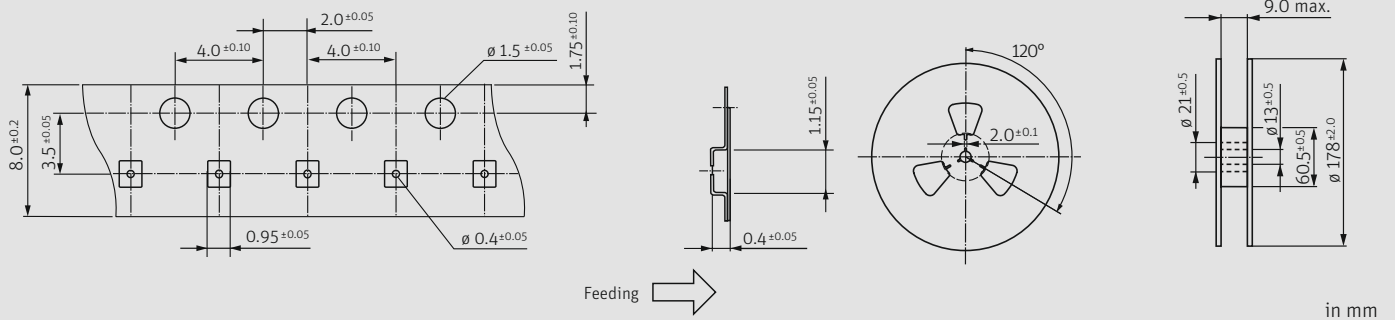
ORDER INFORMATION

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	

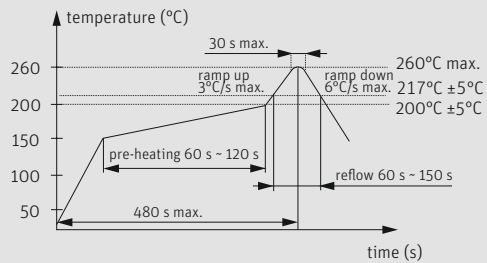
Example: Q 76.80-JXS08-6-10/15-T1-FU-LF (Suffix LF = RoHS compliant / Pb free)

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