

actual size

SMD Quartz Crystal · JXS10

- 4 Pad Version, 1.2 x 1.0 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	JXS10
frequency range	24.0 ~ 80.0 MHz (fund. AT-cut)
frequency tolerance at 25 °C	± 10 ppm / ± 20 ppm / ± 30 ppm
load capacitance C_L	8 pF standard (option: 6 pF / 7 pF / 9 pF / 10 pF)
shunt capacitance C_0	< 2 pF
storage temperature	-40 °C ~ +90 °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 Ω	ESR typ. in Ω
24.0 ~ 31.999	fund. AT	150	100 (t.b.c.)
32.0 ~ 36.999	fund. AT	100	50
37.0 ~ 69.999	fund. AT	60	30
70.0 ~ 80.000	fund. AT	40	25

TABLE 1: FREQUENCY STABILITY VS. TEMPERATURE						
		± 10 ppm	± 15 ppm	± 20 ppm	± 30 ppm	± 50 ppm
-20 °C ~ +70 °C	STD.	○	○	○	○	○
-20 °C ~ +85 °C	T(-20/+85)	○	○	○	○	○
-30 °C ~ +85 °C	T(-30/+85)		○	○	○	○
-40 °C ~ +85 °C	T1		○	○	○	○

○ available

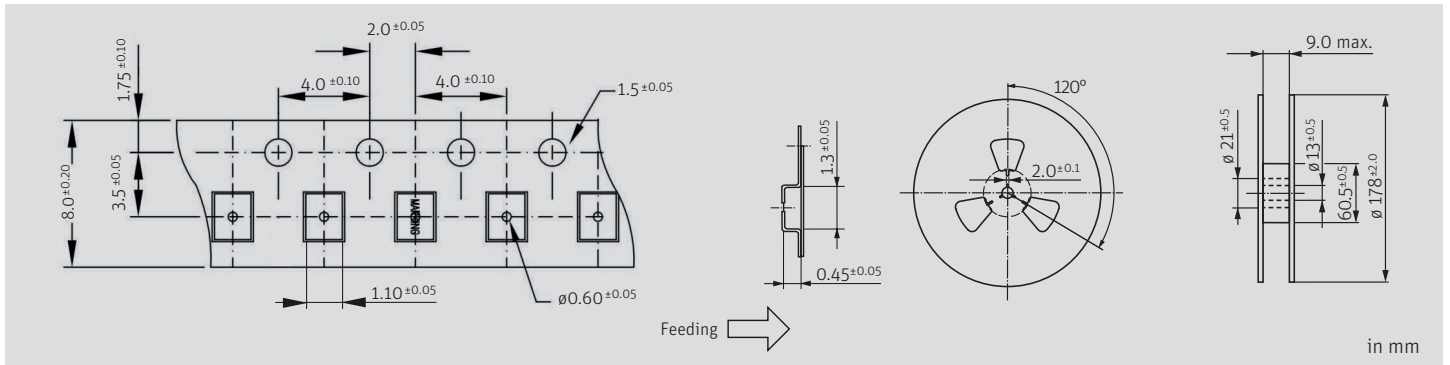
MARKING						
frequency with load capacitance code						
company code / date code						
date code: year/month; A ~ M: Jan. - Dec.; example: 2A = 2022 January						
2: 2022	3: 2023	4: 2024	5: 2025	6: 2026	7: 2027	
Jan.	Febr.	Mar.	Apr.	May	June	
A	B	C	D	E	F	
July	Aug.	Sept.	Oct.	Nov.	Dec.	
G	H	J	K	L	M	

DIMENSIONS						
top view	side view	bottom view	#2-#4: connected to lid, preferably connect to GND crystal connection	pad layout		in mm

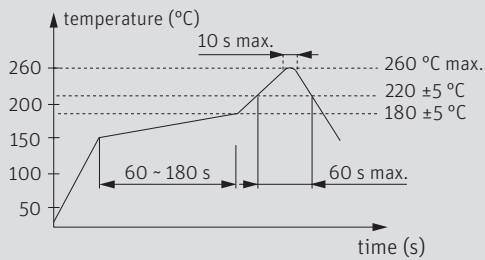
ORDER INFORMATION							
Q	frequency	type	load capacitance	tolerance at 25 °C	stability vs. temp. range	option	FU = fundamental mode
Quartz	24.0 ~ 80.0 MHz	JXS10	8 pF standard 6 pF ~ 10 pF available	10 = ± 10 ppm 20 = ± 20 ppm 30 = ± 30 ppm	10 = ± 10 ppm 15 = ± 15 ppm 20 = ± 20 ppm 30 = ± 30 ppm 50 = ± 50 ppm	blank = -20 °C ~ +70 °C T1 = -40 °C ~ +85 °C T(-20/+85) = -20 °C ~ +85 °C T(-30/+85) = -30 °C ~ +85 °C	
Example: Q 48.0-JXS10-8-10/15-T1-FU-LF (Suffix LF = RoHS compliant / Pb free)							

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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

example 48.0 MHz / 8 pF: 48k0