



actual size

Quartz Crystal · JXE32

Surface Mount Quartz Crystal

Features

■ RoHS compliant

■ ceramic / ceramic package

General Data

type	JXE32
frequency range	13.0 ~ 50.0 MHz (fund. AT-cut)
frequency tolerance at 25 °C	±30 ppm ~ ± 50 ppm
load capacitance C_L	12 pF ~ 16 pF
shunt capacitance C_0	< 7 pF
storage temperature	-40 °C ~ +90 °C
drive level max.	100 µW
aging	< ±5 ppm first year

ESR (series resistance R_s)

frequency in MHz	vibration mode	ESR max. in Ω	ESR typ. in Ω
13.0 ~ 27.999	fund.- AT	90	60
28.0 ~ 50.000	fund.- AT	60	40

Frequency Stability vs. Temperature

		± 30 ppm	± 50 ppm			
-20 °C ~ +70 °C	STD.	○	○			
-40 °C ~ +85 °C	T1	○	○			

● standard
 ○ on request

Marking

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

date code: year/month

example: 5A = 2005 January

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

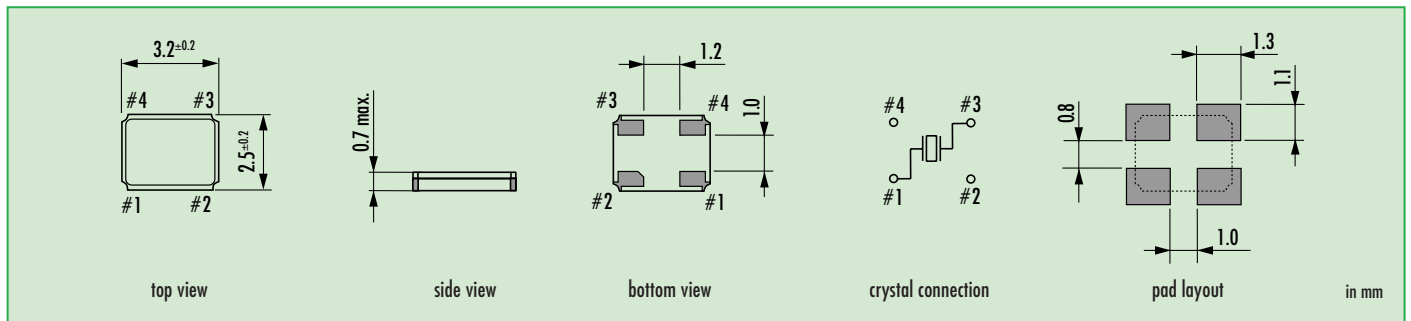
Order Information

Q	frequency in MHz	type	load capacitance in pF	stability at 25 °C in ppm	stability vs. temp. range in ppm	option
Quartz	13.0 ~ 50.0 MHz	JXE32	12 pF ~ 16 pF	± 20 ppm ± 30 ppm ± 50 ppm	see table	blank = -20°C ~ +70°C FU = fundamental AT-cut T1 = -40°C ~ +85°C LF = Pb free contact pins / pads

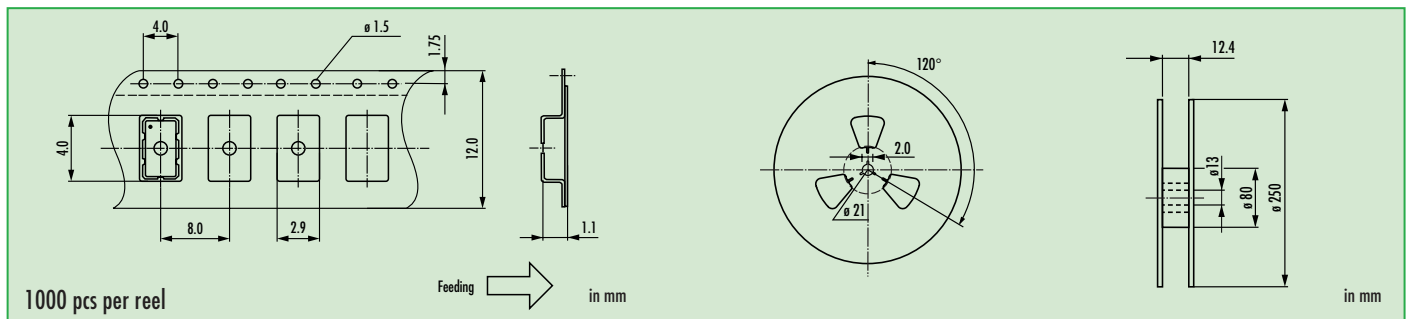
Example: Q 28.0-JXE32-12-30/30-FU

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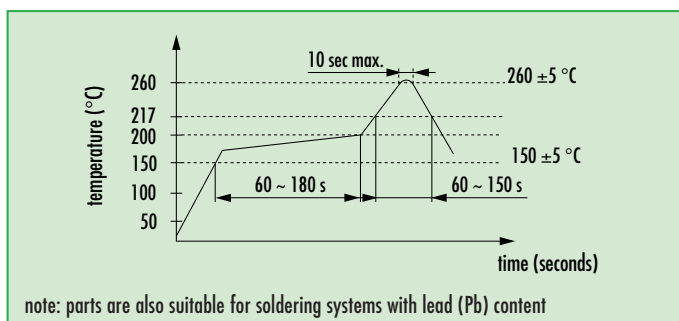
Dimensions



Taping Specification



Reflow Soldering Profile



Load Capacitance Codes

7 pF: m	13 pF: v	20 pF: c	32 pF: e
8 pF: k	14 pF: x	22 pF: g	series: s
9 pF: n	15 pF: j	24 pF: d	T: 3rd OT
10 pF: h	16 pF: b	25 pF: r	
11 pF: l	17 pF: t	27 pF: w	
12 pF: a	18 pF: f	30 pF: .	

example 20.0 MHz / 12 pF: 20a00