



actual size

SMQ series • JXS 53

surface mount quartz crystal

• features

- high frequency stability type
- ceramic/metal package

type	JXS 53
frequency	16.0 ~ 30.0 MHz (fund. AT-cut)
frequency tolerance at 25 °C	± 10 ppm
frequency temperature characteristic	± 4 ppm
operating temperature range	-10 °C ~ +60 °C
storage temperature	-40 °C ~ +90 °C
load capacitance C_L	12 pF ~ 32 pF, series
shunt capacitance C_0	< 7 pF
drive level max.	100 μ W
aging	< ± 3 ppm

order information example

Q - 20.0 - JXS 53 - 12 - 10 / 4

1. 2. 3. 4. 5. 6.

- | | |
|----------------------------------|----------|
| 1. quartz: | Q |
| 2. frequency: | 20.0 MHz |
| 3. type: | JXS 53 |
| 4. load capacitance: | 12 pF |
| 5. frequency tolerance at 25 °C: | ± 10 ppm |
| 6. frequency temp. charact.: | ± 4 ppm |

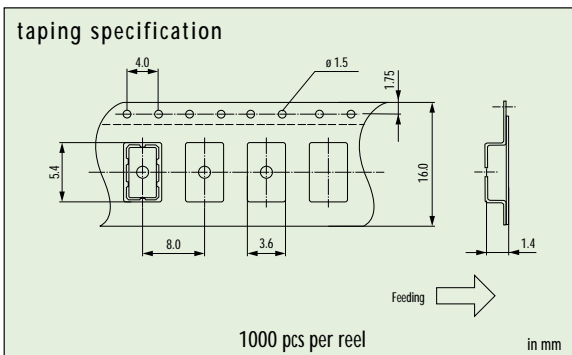
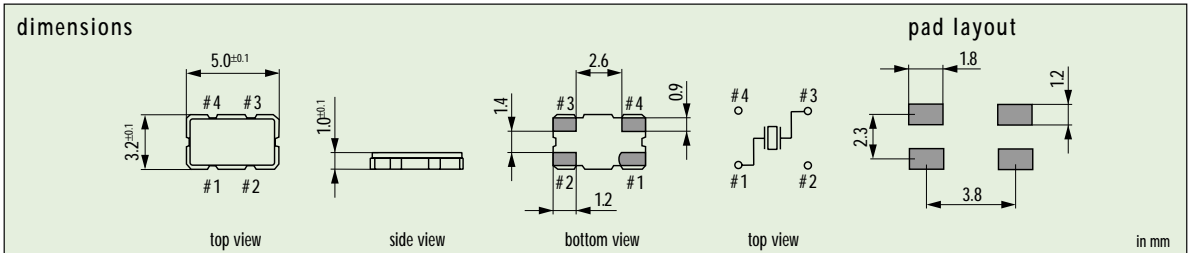
marking:

1. line = frequency with load capacitance code
2. line = company code / date code

date code: year/month example: 0A = 2000 January

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

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series resistance (Rs) / motional capacitance (C1) table

frequency in MHz	cut	vibration mode	Rs max. in Ω	Rs typ. in Ω	C1 typ. in ff
16.0 ~ 30.0	AT	fund	40	20	8

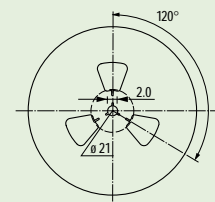
test conditions:

- a) acceleration: 1000 g /0.5 ms, 1/2 sine wave
- b) shock (random drop): height 75 cm, 3 times to hardwood surface ($\Delta R/R \leq 20\%$; $\Delta f/f \leq \pm 5$ ppm)
- c) vibration: f = 10 Hz ~ 55 Hz; amplitude = 1.5 mm; period = about 1 minute; time = 2 h each direction
- d) solderability: according to DIN 68-2-58

standard load capacitance codes

- 12 pF: a
- 16 pF: b
- 18 pF: f
- 20 pF: c
- 22 pF: g
- 24 pF: d
- 30 pF: .
- 32 pF: e
- series: s

reel dimensions



reflow soldering profile

