



actual size

JAS53P4 · AEC-Q200

4 Pad Version · 5.0 x 3.2 mm

- AEC-Q200 qualified
- recommended for automotive applications
- reflow soldering temperature: 260 °C max.
- metal/ceramic package



General Data

type	JAS53P4	
frequency range	8.0 ~ 56.0 MHz	(fund. AT-cut)
frequency tolerance at 25 °C	± 10 ppm, ± 30 ppm, ± 50 ppm	
load capacitance C_L	12 pF standard	(option: 8 pF ~ 32 pF / series)
shunt capacitance C_0	< 7 pF	
storage temperature	-40 °C ~ +125 °C	
drive level max.	500 µW	(10 µW recommended)
aging	< ± 3 ppm first year	

ESR (series resistance R_s) at max. temp. range

frequency in MHz	vibration mode	ESR max. in Ω	ESR typ. in Ω
8.0 ~ 9.999	fund.-AT	100	50
10.0 ~ 10.999	fund.-AT	50	30
11.0 ~ 11.999	fund.-AT	40	25
12.0 ~ 21.999	fund.-AT	40	20
22.0 ~ 24.999	fund.-AT	40	15
25.0 ~ 49.999	fund.-AT	30	15
50.0 ~ 56.000	fund.-AT	40	20

Frequency Stability vs. Temperature

		± 15 ppm	± 20 ppm	± 30 ppm	± 50 ppm	± 100 ppm
-20 °C ~ +70 °C	STD.	○	○	○	○	○
-40 °C ~ +85 °C	T1	○	○	○	○	○
-40 °C ~ +105 °C	T2				○	○
-40 °C ~ +125 °C	T3					○

○ available

Marking

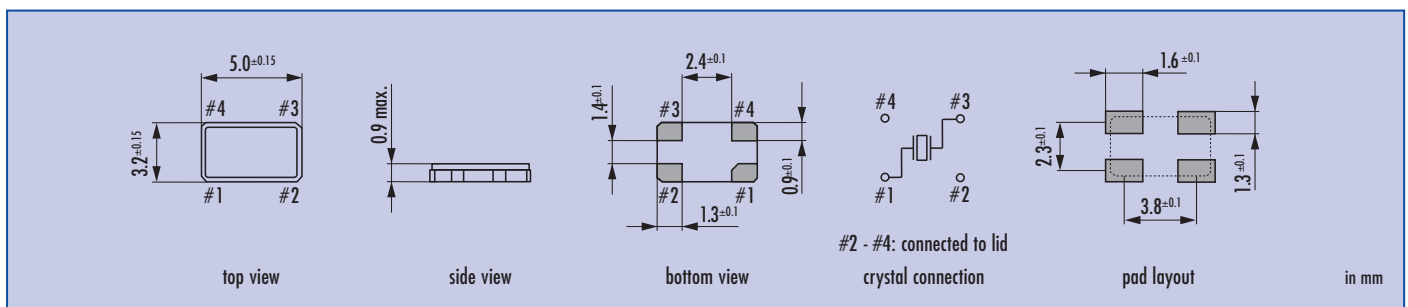
frequency with load capacitance code
company code / date code / internal code

date code: year / month
example: OA = 2010 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

Dimensions



Order Information

Q	frequency	type	load capacitance	stability at 25 °C	stability vs. temp. range	option
Quartz	8.0 ~ 56.0 MHz	JAS53P4	12 pF standard 8 pF ~ 32 pF S for series	10 = ± 10 ppm 30 = ± 30 ppm 50 = ± 50 ppm	15 = ± 15 ppm 20 = ± 20 ppm 30 = ± 30 ppm 50 = ± 50 ppm 100 = ± 100 ppm	blank = -20 °C ~ +70 °C T1 = -40 °C ~ +85 °C T2 = -40 °C ~ +105 °C T3 = -40 °C ~ +125 °C

Example: Q 30.0-JAS53P4-12-30/50-T2-LF (Suffix LF = RoHS compliant / Pb free pads)

