



actual size

# JAG84P2 · AEC-Q200

2 Pad Version · 8.0 x 4.5 mm

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



## General Data

type	JAG84P2	
frequency range	6.0 ~ 40.0 MHz	(fund. AT-cut)
frequency stability at 25 °C	± 30 ppm, ± 50 ppm	
load capacitance $C_L$	12 pF standard	(option: 10 pF ~ 32 pF / series)
shunt capacitance $C_0$	7 pF max.	
storage temperature	-40 °C ~ +150 °C	
shock resistance	> 100 g	(half sine pulse, 6.0 ms)
drive level max.	500 µW	(10 µW recommended)
aging	< ± 3 ppm first year	

## ESR (series resistance Rs)

frequency in MHz	vibration mode	ESR max. in Ω	ESR typ. in Ω
6.0 ~ 9.999	fund.-AT	200	120
10.0 ~ 11.999	fund.-AT	150	55
12.0 ~ 40.000	fund.-AT	100	30

## Frequency Stability vs. Temperature

		± 30 ppm	± 60 ppm	± 100 ppm	± 150 ppm	
-20 °C ~ +70 °C	STD.	○	○	○	○	
-40 °C ~ +85 °C	T1	○	○	○	○	
-40 °C ~ +105 °C	T2		○	○	○	
-40 °C ~ +125 °C	T3			○	○	
-40 °C ~ +150 °C	T7				○	
○ available						

## Marking

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

date code: year / month

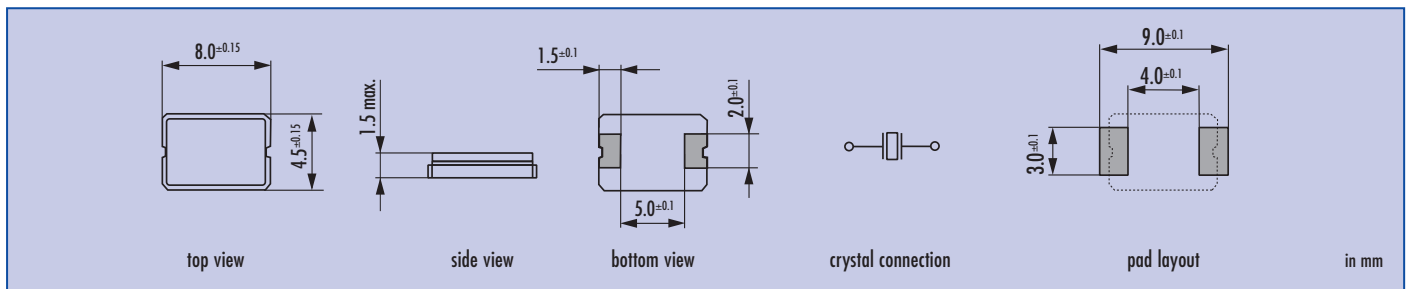
example: 9A = 2009 January

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	6.0 ~ 40.0 MHz	JAG84P2	12 pF standard 10 pF ~ 32 pF S for series	30 = ± 30 ppm 50 = ± 50 ppm	30 = ± 30 ppm 60 = ± 60 ppm 100 = ± 100 ppm 150 = ± 150 ppm	blank = -20 °C ~ +70 °C T1 = -40 °C ~ +85 °C T2 = -40 °C ~ +105 °C T3 = -40 °C ~ +125 °C T7 = -40 °C ~ +150 °C

Example: Q 28.0-JAG84P2-12-30/30-T1-FU-LF (Suffix LF = RoHS compliant / Pb free pads)

