

actual size

JAG75P2 · AEC-Q200

2 Pad Version · 7.0 x 5.0 mm

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

RoHS 2002/95/EC
RoHS compliant

Pb free: pins / pads

General Data

type	JAG75P2	
frequency range	5.0 ~ 50.0 MHz	(fund. AT-cut)
	30.0 ~ 70.0 MHz	(3rd OT AT-cut)
frequency stability at 25 °C	± 30 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 ~ +125 °C	
shock resistance	> 100 g	(half sine pulse, 6.0 ms)
drive level max.	100 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
5.0 ~ 5.999	fund.-AT	200	120
6.0 ~ 6.999	fund.-AT	100	55
7.0 ~ 9.999	fund.-AT	80	30
10.0 ~ 15.999	fund.-AT	60	20
16.0 ~ 21.999	fund.-AT	50	15
22.0 ~ 39.999	fund.-AT	40	15
40.0 ~ 50.000	fund.-AT	30	11
30.0 ~ 44.999	3rd OT-AT	80	60
45.0 ~ 70.000	3rd OT-AT	70	55

Frequency Stability vs. Temperature

		± 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			○		

● standard
○ available

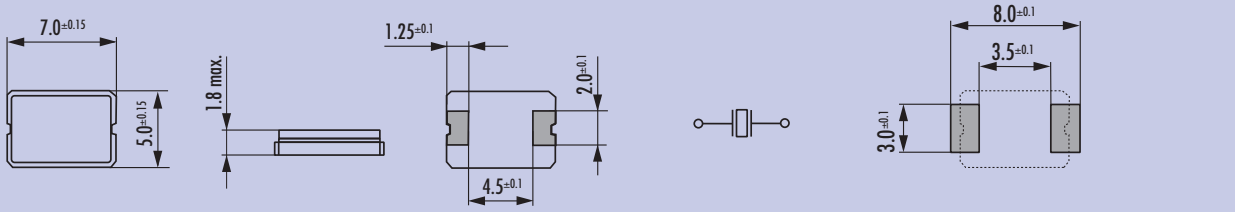
Marking

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



top view · side view · bottom view · crystal connection · pad layout · in mm

Order Information

Q	frequency	–	type	–	load capacitance	–	stability at 25 °C	/	stability vs. temp. range	–	option
Quartz	5.0 ~ 70.0 MHz		JAG75P2		12 pF standard 10 pF ~ 32 pF S for series		30 = ± 30 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 FU = for fundamental frequencies ≥ 20 MHz 3OT = 3rd overtone

Example: Q 28.0-JAG75P2-12-30/30-FU-LF (Suffix LF = RoHS compliant / Pb free pads)

Jauch Quartz GmbH • e-mail: info@jauch.de
full data can be found under: www.jauch.de / www.jauch.co.uk / www.jauch.fr / www.jauchusa.com
All specifications are subject to change without notice