



actual size

SMD Quartz Crystal · JXG84P2

2 Pad Version · 8.0 x 4.5 mm

- automotive temperature range available
- reflow soldering temperature: 260 °C max.
- ceramic package



General Data

type	JXG84P2
frequency range	6.0 ~ 50.0 MHz (fund. AT-cut) 30.0 ~ 60.0 MHz (3rd OT AT-cut)
frequency stability at 25 °C	± 30 ppm
load capacitance C_L	12 pF standard (option: 8 pF ~ 30 pF / series)
shunt capacitance C_0	< 7 pF max.
storage temperature	-40 °C ~ +125 °C
drive level max.	300 µW (100 µW recommended)
aging	< ± 5 ppm first year

ESR (series resistance Rs)

frequency in MHz	vibration mode	ESR max. in Ω	ESR typ. in Ω
6.0 ~ 6.999	fund.-AT	100	50
7.0 ~ 9.999	fund.-AT	80	25
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	13
30.0 ~ 44.999	3rd OT-AT	80	60
45.0 ~ 60.000	3rd OT-AT	70	55

Frequency Stability vs. Temperature

	± 30 ppm	± 50 ppm	± 100 ppm		
-20 °C ~ +70 °C	●	○	○		
-40 °C ~ +85 °C	○	●	○		
-40 °C ~ +105 °C			○		
-40 °C ~ +125 °C			○		

● standard
 ○ available

Marking

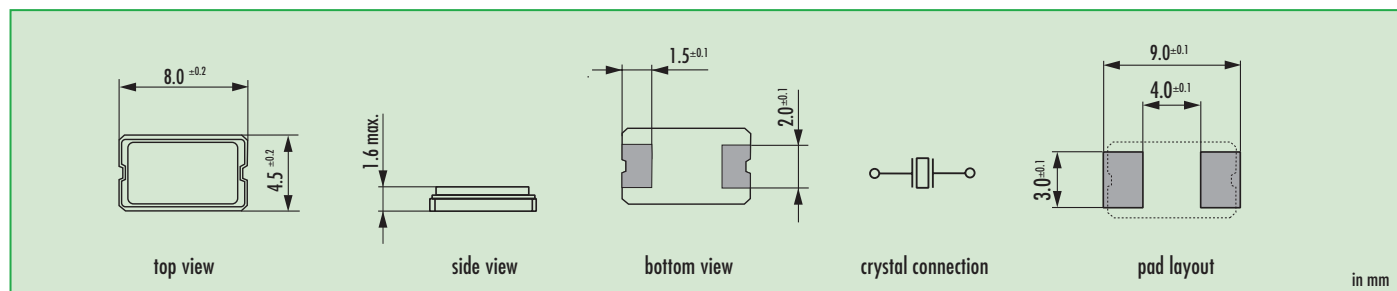
frequency with load capacitance code
company code / date code / internal code

date code: year/month

example: 6A = 2006 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 ~ 60.0 MHz	JXG84P2	12 pF standard 8 pF ~ 30 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 30T = 3rd overtone

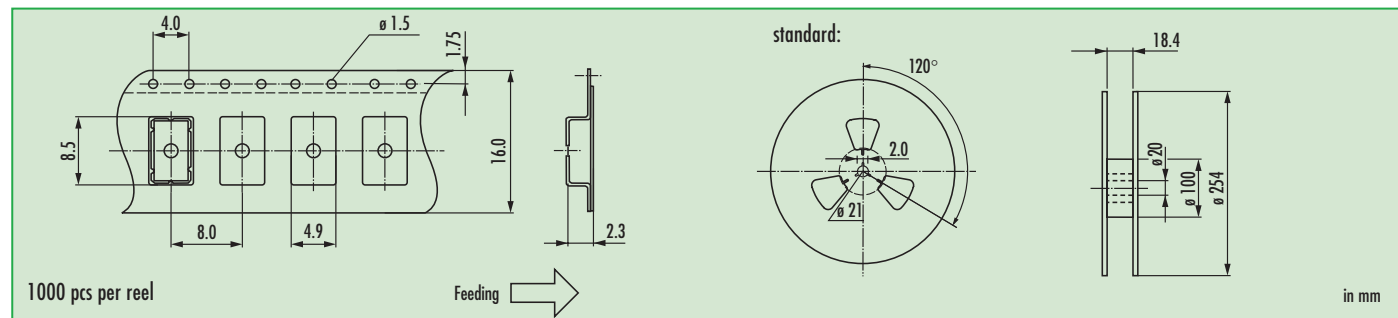
Example: Q 28.0-JXG84P2-12-30/30-FU-LF (Suffix LF = RoHS compliant / Pb free pads)



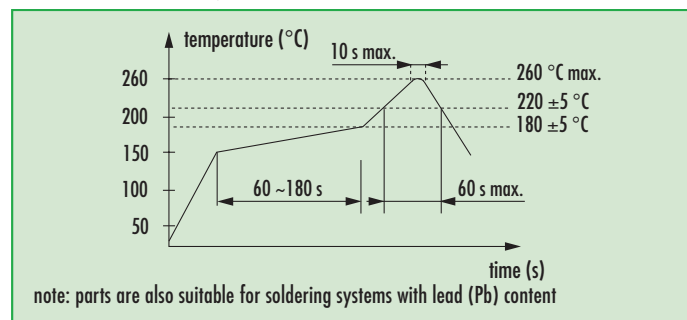
Jauch Quartz GmbH • e-mail: info@jauch.de
 full data can be found under: www.jauch.de / www.jauch.fr / www.jauchusa.com
 All specifications are subject to change without notice

SMQ series · JXG84P2

Taping Specification



Reflow Soldering Profile



Load Capacitance Codes

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: .	
13 pF: v	20 pF: c		

example 8.0 MHz / 12 pF: 8a000