



# SMD Quartz Crystal · J49SMH

- 2 pad version, 11.5 x 4.8 mm
- low cost SMD type
- reflow soldering temperature: 260 °C max.
- package height 4.0 mm max.



RoHS compliant



Pb free



REACH compliant



Conflict mineral free

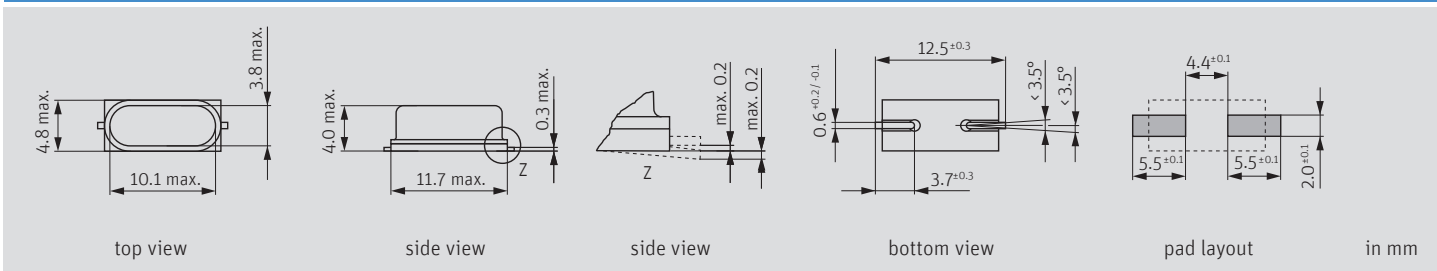
## GENERAL DATA

TYPE	J49SMH
available frequencies	see ESR table
frequency tolerance at 25 °C	±30 ppm (tolerance code G)
frequency stability vs. temp.	±30 ppm (stability code G)
operating temperature range	-40°C ~ +85°C (temp. code K)
aging max.	±5 ppm first year
storage temperature	-40 °C ~ +125 °C
drive level max.	500 µW (100 µW recommended)
shunt capacitance C <sub>0</sub>	< 5 pF
load capacitance C <sub>L</sub>	12 pF (C <sub>L</sub> code A)
	16 pF (C <sub>L</sub> code B)
	18 pF (C <sub>L</sub> code F)
	20 pF (C <sub>L</sub> code C)
	30 pF (C <sub>L</sub> code P)

## ESR (SERIES RESISTANCE RS)

frequency in MHz	vibration mode	ESR max. in Ω	ESR typ. in Ω
3.579545 MHz	fund. - AT	120	60
3.68640 MHz	fund. - AT	120	60
4.0 MHz	fund. - AT	80	60
4.91520 MHz	fund. - AT	80	60
6.0 MHz	fund. - AT	70	35
7.32780 MHz	fund. - AT	50	25
8.0 MHz	fund. - AT	50	25
10.0 MHz	fund. - AT	35	15
12.0 MHz	fund. - AT	35	15
14.74560 MHz	fund. - AT	30	10
16.0 MHz	fund. - AT	30	10
18.4320 MHz	fund. - AT	30	10
20.0 MHz	fund. - AT	30	10
24.0 MHz	fund. - AT	30	10
25.0 MHz	fund. - AT	30	10
27.0 MHz	fund. - AT	30	10
30.0 MHz	fund. - AT	30	10

## DIMENSIONS



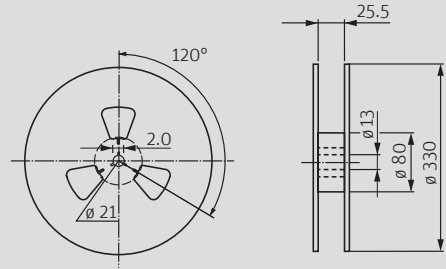
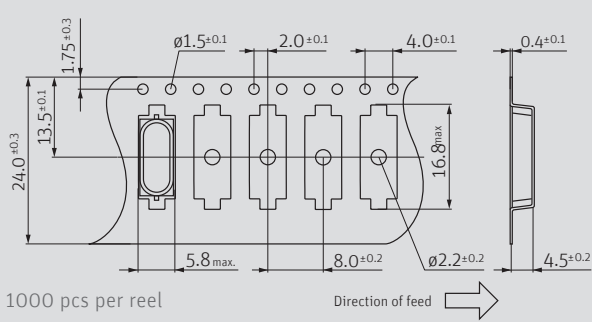
## ORDER INFORMATION

J49SMH-P-G-G-K-3M579545	J49SMH-B-G-G-K-6M0	J49SMH-P-G-G-K-10M0	J49SMH-C-G-G-K-16M0	J49SMH-F-G-G-K-24M0
J49SMH-P-G-G-K-3M68640	J49SMH-P-G-G-K-6M0	J49SMH-A-G-G-K-12M0	J49SMH-P-G-G-K-16M0	J49SMH-P-G-G-K-24M0
J49SMH-A-G-G-K-4M0	J49SMH-P-G-G-K-7M37280	J49SMH-F-G-G-K-12M0	J49SMH-P-G-G-K-18M4320	J49SMH-A-G-G-K-25M0
J49SMH-B-G-G-K-4M0	J49SMH-A-G-G-K-8M0	J49SMH-P-G-G-K-12M0	J49SMH-A-G-G-K-20M0	J49SMH-F-G-G-K-25M0
J49SMH-F-G-G-K-4M0	J49SMH-B-G-G-K-8M0	J49SMH-B-G-G-K-14M74560	J49SMH-F-G-G-K-20M0	J49SMH-P-G-G-K-25M0
J49SMH-P-G-G-K-4M0	J49SMH-F-G-G-K-8M0	J49SMH-P-G-G-K-14M74560	J49SMH-C-G-G-K-20M0	J49SMH-B-G-G-K-27M0
J49SMH-B-G-G-K-4M91520	J49SMH-C-G-G-K-8M0	J49SMH-A-G-G-K-16M0	J49SMH-P-G-G-K-20M0	J49SMH-F-G-G-K-30M0
J49SMH-P-G-G-K-4M91520	J49SMH-P-G-G-K-8M0	J49SMH-F-G-G-K-16M0	J49SMH-A-G-G-K-24M0	

Ordering example: J49SMH-A-G-G-K-4M0 J49SMH, 12pF load capacitance, 30ppm freq tolerance, 30ppm freq stability, -40°C ~ +85°C operating temp, 4MHz

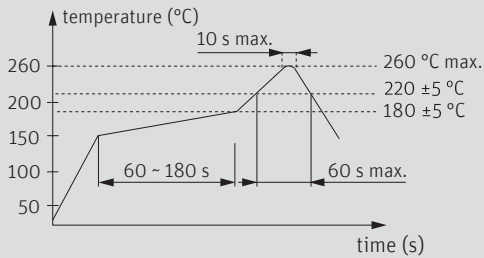
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## TAPING SPECIFICATION



in mm

## REFLOW SOLDERING PROFILE



## MARKING

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

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2023	a	b	c	d	e	f	g	h	j	k	l	m
2024	n	p	q	r	s	t	u	v	w	x	y	z
2025	A	B	C	D	E	F	G	H	J	K	L	M
2026	N	P	Q	R	S	T	U	V	W	X	Y	Z