

SMD Quartz Crystal · J49SML

- 2 pad version, 11.5 x 4.8 mm
- low cost SMD type
- reflow soldering temperature: 260 °C max.
- package height 3.0 mm max.



RoHS compliant





REACH compliant

Conflict mineral free

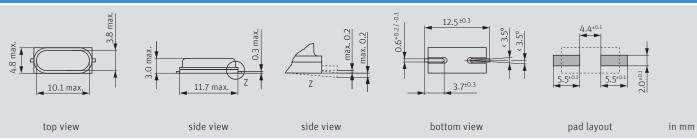
GENERAL DATA					
ТҮРЕ		J49SML			
frequency range	fund. AT-cut	4.0 MHz			
		8.0 MHz			
		12.0 MHz			
		16.0 MHz			
		20.0 MHz			
		24.0 MHz			
		25.0 MHz			
frequency tolerance at 25 °C		±30 ppm			
load capacitance C _L		12 pF / 18 pF / 30 pF			
shunt capacitance C ₀		< 5 pF			
storage temperature		-40 °C ~ +125 °C			
drive level max.		500 μW (100 μW recommended)			
aging		< ±5 ppm first year			

ESR (SERIES RESISTANCE RS)					
frequency in MHz	vibration mode	$ \mbox{ESR max.} \\ \mbox{in } \Omega \\$	ESR typ. in Ω		
4.0 MHz	fund AT	80	60		
8.0 MHz	fund AT	50	25		
12.0 MHz	fund AT	35	15		
16.0 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		

FREQUENCY STABILITY VS. TEMPERATURE G ±30 ppm

LOAD CAPACITANCE CODES FREQUENCY TOLERANCE OPERATING TEMPERATURE 12 pF : A 18 pF : F 30 pF : P Operating temperature code K -40°C - +85°C

DIMENSIONS



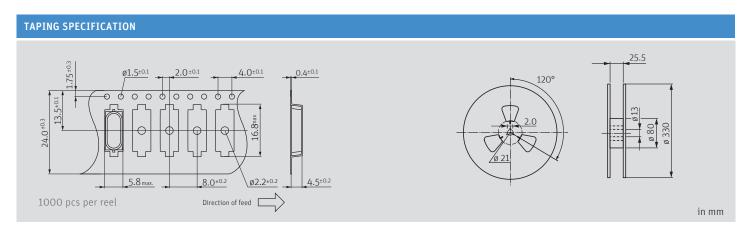
ORDER INFORMATION		
J49SML-A-G-G-K-4MO	J49SML-P-G-K-12MO	J49SML-F-G-G-K24MO
J49SML-F-G-G-K-4MO	J49SML-A-G-G-K-16MO	J49SML-P-G-G-K-24MO
J49SML-P-G-G-K-4MO	J49SML-F-G-G-K-16MO	J49SML-A-G-G-K-25MO
J49SML-A-G-G-K-8MO	J49SML-P-G-G-K-16MO	J49SML-F-G-G-K-25MO
J49SML-F-G-G-K-8MO	J49SML-A-G-G-K-20M0	J49SML-P-G-G-K-25MO
J49SML-P-G-G-K-8MO	J49SML-F-G-K-20M0	
J49SML-A-G-G-K-12MO	J49SML-P-G-K-20M0	
J49SML-F-G-G-K-12MO	J49SML-A-G-G-K-24MO	
Ordering example:		

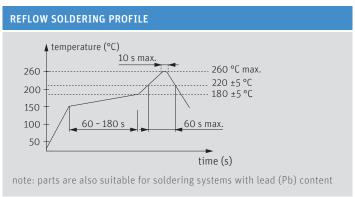
J49SML-A-G-G-K-4MO

J49SML, 12pF Load Capacitance, 30ppm Freq tolerance, 30ppm Freq stability, -40-85 operating temp, 4MHz



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MARKING frequency with load capacitance code Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct. Nov. Dec. 2019 a b c d e f g h j k l m 2020 n p q r s t u v w x y z 2021 A B C D E F G H J K L M 2022 N P Q R S T U V W X Y Z

