

## Quartz Crystal · MQ5-SMC

- UM5-SMD Crystal Version · 9.7 x 7.7 mm
- automotive temperature range available
- reflow soldering temperature: 260 °C max.
- package height 3.6 mm max.



RoHS compliant



REACH compliant

Conflict mineral free

GENERAL DATA				
ТҮРЕ	MQ5 (UM5-SMC)			
frequency range	10.0 ~ 40.0 MHz (fund. AT-cut)			
	30.0 ~ 105.0 MHz (3rd OT AT-cut)			
	50.0 ~ 175.0 MHz (5th OT AT-cut)			
	70.0 ~ 250.0 MHz (7th OT AT-cut)			
frequency tolerance at 25 °C	±5 ppm ~ ±30 ppm			
load capacitance $C_L$	8 pF ~ 30 pF or series			
shunt capacitance C <sub>0</sub>	< 7 pF			
storage temperature	-55 °C ~ +125 °C			
drive level max.	500 μW (100 μW recommended)			
aging	< ±3 ppm first year			

ESR (SERIES RESISTANCE RS)									
frequency in MHz	vibration mode	ESR max. in $\Omega$	ESR typ. in $\Omega$						
10.0 ~ 19.999	fund AT	60	40						
20.0 ~ 40.000	fund AT	40	20						
30.0 ~ 79.999	3rd OT - AT	100	50						
80.0 ~ 105.00	3rd OT - AT	80	40						
50.0 ~ 59.999	5th OT - AT	250	150						
60.0 ~ 129.99	5th OT - AT	200	100						
130.0 ~ 175.00	5th OT - AT	180	120						
70.0 ~ 129.99	7th OT - AT	250	180						
130.0 ~ 250.00	7th OT - AT	200	150						

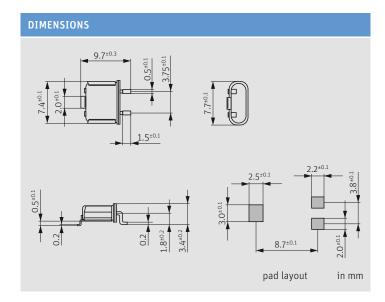


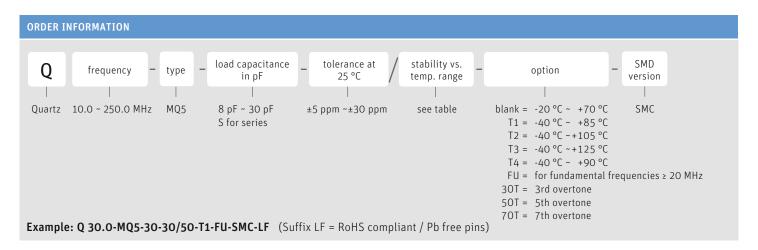
TABLE 1: FREQUENCY STABILITY VS. TEMPERATURE									
		±3 ppm	±5 ppm	±10 ppm	±30 ppm	±50 ppm	±100 ppm		
0°C~ +60°C		0	0	0					
-20 °C ~ +70 °C	STD.		0	0	•				
-40°C ~ +85°C	T1			0	0	•			
-40°C ~ +90°C	T4				0	0	0		
-40 °C ~ +105 °C	T2				0	0	0		
-40 °C ~ +125 °C	T3						0		

<sup>•</sup> standard O available

## MARKING

frequency

company code / date code





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## TAPING SPECIFICATION 24.8 1000 pcs per reel Direction of feed

