



查询"Q70.0-MQ1-9-50"供应商



actual size

Quartz Crystal · MQ1 (UM-1)

Pin Type Crystal · 7.9 x 3.3 mm

- high frequency stability
- wave soldering temperature: 260 °C max.
- package height 8.0 mm max.

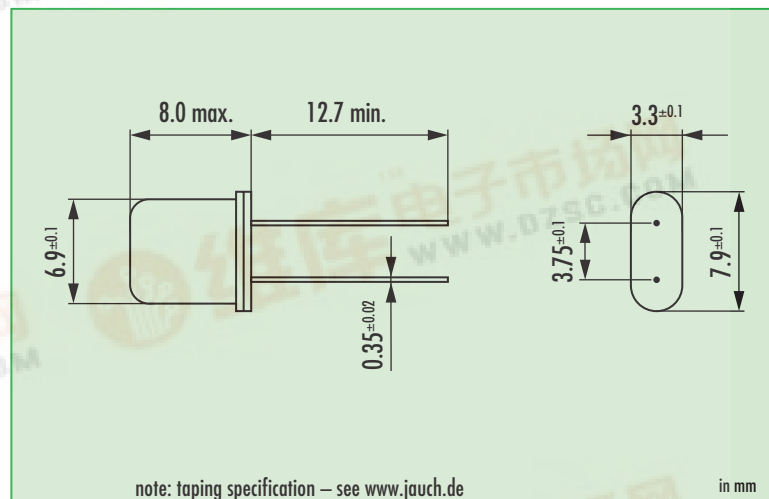


General Data

type	MQ1 (UM-1)	
frequency range	0.9216 / 1.0 MHz*	(fund. SL-cut)
	4.00 ~ 40.00 MHz	(fund. AT-cut)
	20.0 ~ 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 ~ 32 pF or series	
shunt capacitance C_0	< 7 pF	
storage temperature	-55 °C ~ +125 °C	
drive level max.	500 µW (100 µW recommended)	
aging	< ± 3 ppm first year	

* other frequencies upon request

Dimensions



Frequency Stability vs. Temperature

	± 3 ppm	± 5 ppm	± 10 ppm	± 30 ppm	± 50 ppm	± 100 ppm
0 °C ~ +60 °C	○	○	○			
-20 °C ~ +70 °C	STD.	○	○	●		
-40 °C ~ +85 °C	T1		○	○	●	
-40 °C ~ +90 °C	T4			○	○	○
-40 °C ~ +105 °C	T2			○	○	○
-40 °C ~ +125 °C	T3				○	○
-10 °C ~ +60 °C	SL					○
-20 °C ~ +70 °C	SL					○

● standard
○ available

ESR (series resistance R_s)

frequency in MHz	vibration mode	ESR max. in Ω	ESR typ. in Ω
0.92 / 1.000	fund.- SL	3000	800
4.00 ~ 4.9999	fund.- AT	150	80
5.00 ~ 9.9999	fund.- AT	80	40
10.0 ~ 14.999	fund.- AT	40	20
15.0 ~ 40.000	fund.- AT	30	15
20.0 ~ 49.999	3rd OT - AT	80	40
50.0 ~ 105.00	3rd OT - AT	60	30
50.0 ~ 175.00	5th OT - AT	150	80
70.0 ~ 119.99	7th OT - AT	200	150
120.0 ~ 250.0	7th OT - AT	180	120

Order Information

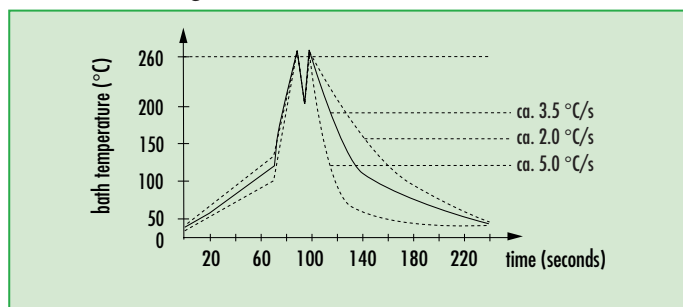
Q	frequency	type	load capacitance in pF	stability at 25 °C	stability vs. temp. range	option
Quartz	0.9216 ~ 250.0 MHz	MQ1	8 pF ~ 32 pF S for series	± 5 ~ ± 30 ppm ± 50 ppm for SL-cut ± 30 ppm std.	± 100 ppm for SL-cut	blank = -20 °C ~ + 70 °C T1 = -40 °C ~ + 85 °C T2 = -40 °C ~ +105 °C T3 = -40 °C ~ +125 °C T4 = -40 °C ~ + 90 °C FU = for fundamental frequencies ≥ 20 MHz 3OT = 3rd overtone 5OT = 5th overtone 7OT = 7th overtone TR = taped MP = middle pin LL = lead length in mm PT = plastic tray

Example: Q 30.0-MQ1-30-30/50-FU (Suffix LF = RoHS compliant / Pb free pins or pads)

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Wave Soldering Profile



Marking

frequency
company code / date code

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