

Monolithic Crystal Filter Specification Sheet

Holder type: UM-5

Frequency: 40.000MHz

SPECIFICATION SHEET

APPLICATION

This Standard Will Apply to The Quartz Crystals.

ELECTRICAL DATA

NO.	Specialty	Parameter
1	Holder type	UM-5
2	Mode of Oscillations	Fundamental
3	Center Frequency	40.000MHz
4	Pass bandwidth	30kHz \pm 7.5KHz min (at 3dB)
		15dB: 50kHz \pm -25kHz
		40dB: 50kHz \pm -25kHz
		50dB:60kHz \pm -25kHz
5	Pass band ripple	0.5dB max
6	Insertion loss	1.5dB max
7	Stop Band width	\pm 25KHz max (at 14dB)
8	Terminating impedance	0.55K Ω //3.0pf
9	Operating Tem. Range	-20~+70
10	Insulated Resistance	500M Ω (max)(DC100V)
11	Aging per Year	\pm 3ppm

MECHANICAL DATA

1.Marking	TBA
2.Shock Test:	Dropping from 45 cm height,3 times on 20mm-thick- hard wood After testing, the electrical data follows the requirement.
3.Terminal strength	Tensile: Fix main body of crystal. Load 0.9kg pulling force along terminal axial for 30 \pm 5 seconds. The terminal can not he pulled out or broken Bending: Hang 450g object on lead terminal. Bend 90 degree for 2 to 3 seconds. Return to the former place with the same speed and then do it again oppositely. The down-lead does not become broken and loosed
4.Sealing	The crystal unit shall be immersed in alcohol for 5 minutes with 5kg pressure per cm ² .Taking out, Testing the resistance between down-lead and fundemental.The resistance shall be at least 500M Ω (max) (DC100V)
5.Temperature cycle	2~3min -10 to +70

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	30min 30 min After cycling three times, there is no distinct damage on the surface. Capacity testing requirement as vibration.
6.Solderability:	The lead(2to2.5mm from terminal to bottom) is immersed in a 230 ± 5 Solder bath within 2 ± 0.5 seconds. The dipping surface of the lead shall be at least 95% covered with a Continuous new solder coating. Capacity testing requirement as vibration.
7.Resistance to soldering heat	The(2 to 2.5mm from terminal to bottom) is immersed in a 350 ± 10 solder bath within 3.5 ± 0.5 seconds. After testing, without distinct damage on the surface. Capacity testing requirement as vibration.
8.Resistance to heat	Resistance to the lowest temperature: Stored at -25 ± 3 for 2 hours and then at normal temperature for 2 hours before testing. Capacity testing requirement as vibration. Resistance to the highest temperature: Stored at 70 ± 2 for 2 hours and then at normal temperature for 2 hours before testing. Capacity testing requirement as vibration.
9.Invariable humidity	Stored at 40 ± 3 and $RH93\% \pm 2\%$ for 48 hours and then at normal condition for 2 hours before testing. Without distinct damage to the surface. Capacity testing requirement as vibration.