

规格书编号

SPEC NO :

产品规格书

SPECIFICATION

CUSTOMER 客户: _____
PRODUCT 产品: _____ CRYSTAL FILTER _____
MODEL NO 型号: _____ UM-5-19.650M08B _____
PREPARED 编制: _____ LEO _____ CHECKED 审核: _____ YORK _____
APPROVED 批准: _____ LIUMING _____ DATE 日期: _____ 2014-8-4 _____

客户确认 CUSTOMER RECEIVED:		
审核 CHECKED	批 准 APPROVED	日 期 DATE

无锡市好达电子有限公司
Shoulder Electronics Limited

APPLICATION

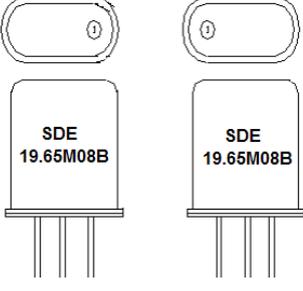
This Standard Will Apply to The Quartz Crystals.

ELECTRICAL DATA

NO	Speciality	Parameter
01	Holder type	MCF UM-5*2
02	Mode of Oscillations	Fundamental
03	Center Frequency	19.650MHz
04	Pass bandwidth	$\pm 3.75\text{KHz}$ min (at 3dB)
05	Pass band ripple	1.0dB max
06	Insertion loss	2.0dB max
07	Stop Band width	$\pm 15\text{KHz}$ max (at 40dB)
08	Terminating impedance	$850\ \Omega // 5.0\text{pf} // 16.0\text{pf}$
09	Operating Tem. Range	-20~+70°C
10	Insulated Resistance	$500\text{M}\ \Omega$ (max)(DC100V)
11	Aging per Year	$\pm 3\text{ppm}$

SPECIFICATION SHEET

□ MECHANICAL DATA

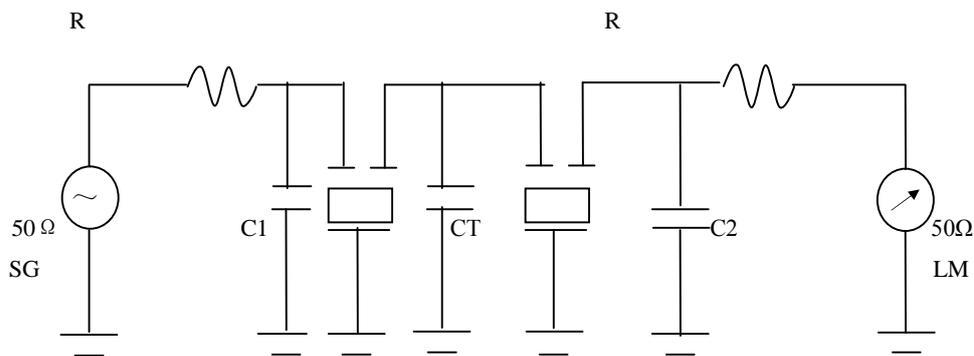
<p>1. Marking:</p>	
<p>2.Shock Test:</p>	<p>Dropping from 50 cm height,3 times on 30mm-thick- hard wood, After testing, the electrical data follows the requirement.</p>
<p>3.Vibration Test:</p>	<p>30 minutes in each direction 10 to 55 Hz, amplitude 0.75mm, After testing, the electrical data follows the requirement.</p>
<p>4.Terminal strength:</p>	<p>Tensile: Fix main body of crystal. Load 0.9kg pulling force along, terminal axial for 30±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.</p>
<p>5.Sealing:</p>	<p>The crystal unit shall be immersed in alcohol for 5 minutes with 5kg pressure per cm² .Taking out, Testing the resistance between down- lead and fundamental. The resistance shall be at least 500M Ω (max) (DC100V).</p>
<p>6.Temperature cycle:</p>	<p>2~3 min -20℃ to +70℃ 30min 30min After cycling three times, there is no distinct damage on the surface. Capacity testing requirement as vibration.</p>

SPECIFICATION SHEET

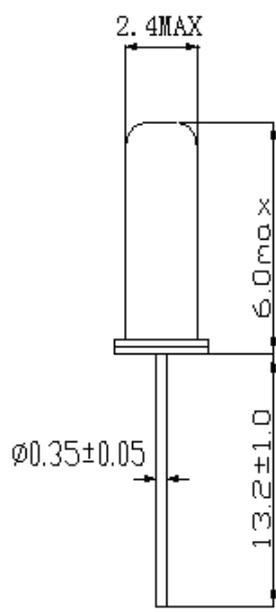
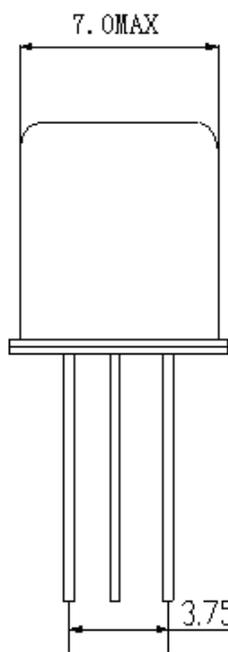
□ MECHANICAL DATA

7.Solderability:	The lead(2to2.5mm from terminal to bottom) is immersed in a $230 \pm 5^{\circ}\text{C}$ 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.
8. Resistance to soldering heat:	The(2 to 2.5mm from terminal to bottom) is immersed in a $350 \pm 10^{\circ}\text{C}$ solder bath within 3.5 ± 0.5 seconds. After testing, without distinct damage on the surface. Capacity testing requirement as vibration.
9. Resistance to heat:	Resistance to the lowest temperature: Stored at $-20 \pm 3^{\circ}\text{C}$ 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 $70 \pm 2^{\circ}\text{C}$ for 2 hours and then at normal temperature for 2 hours before testing. Capacity testing requirement as vibration.
10. Invariable humidity:	Stored at $40 \pm 3^{\circ}\text{C}$ 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.

Test Circuit



R: 800Ω, C1,C2: 5.0pf, CT:16.0pf



UNIT : mm

