

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-5-62.5M20A \_\_\_\_\_  
PREPARED 编制: \_\_\_\_\_ LEO \_\_\_\_\_ CHECKED 审核: \_\_\_\_\_ YORK \_\_\_\_\_  
APPROVED 批准: \_\_\_\_\_ LIUMING \_\_\_\_\_ DATE 日期: \_\_\_\_\_ 2012-12-25 \_\_\_\_\_

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



MECHANICAL DATA **SPECIFICATION SHEET**

APPLICATION

1. Marking Standard Will Apply to The Quartz Crystals.

ELECTRICAL DATA

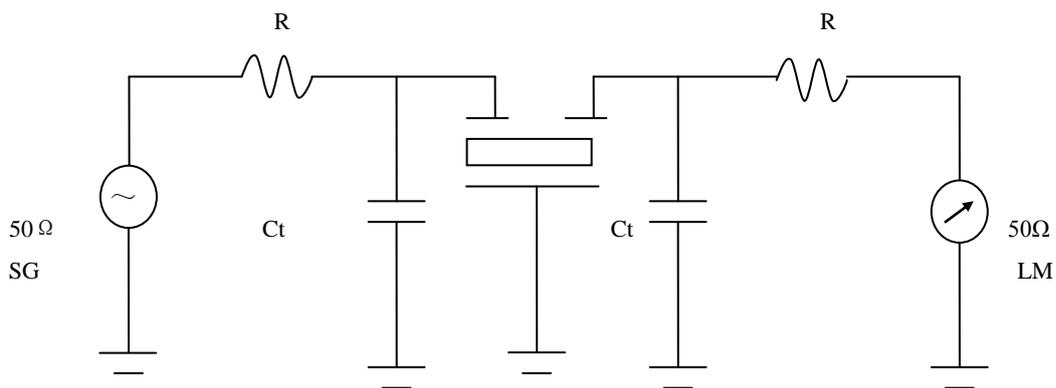
SDE  
62.5M20A

NO	Speciality	Parameter
01	Holder type	MCF UM-5
02	Shock Test: Mode of Oscillations	Dropping from 50 cm height, 3 times on 30mm-thick- hard wood, After testing, the electrical data follows the requirement. Fundamental
03	Center Frequency	62.5MHz
04	Vibration Test: Pass bandwidth	30 minutes in each direction 10 to 55 Hz, amplitude 0.75mm, After testing, the electrical data follows the requirement. ±10KHz min (at 3dB)
05	Terminal strength: Pass band ripple	Tensile: Fix main body of crystal. Load 0.9kg pulling force along, teminal axial for 30±5 seconds. 1.0dB max
06	Insertion loss	The terminal can not he pulled out or broken. Bending: Hang 450g object on lead terminal. Bend 90 degree for 3.0dB max
07	Stop Band width	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 ±30KHz max (at 15dB)
08	Terminating impedance	broken and loosed. 620 Ω//3.0pf
09	Operating Temp Range	-30~+70°C
10	Sealing: Insulated Resistance	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)
11	Aging per Year	(DC100V). ±3ppm
6.	Temperature cycle:	2~3 min -30°C to +70°C 30min 30min After cycling three times, there is no distinct damage on the surface. Capacity testing requirement as vibration.

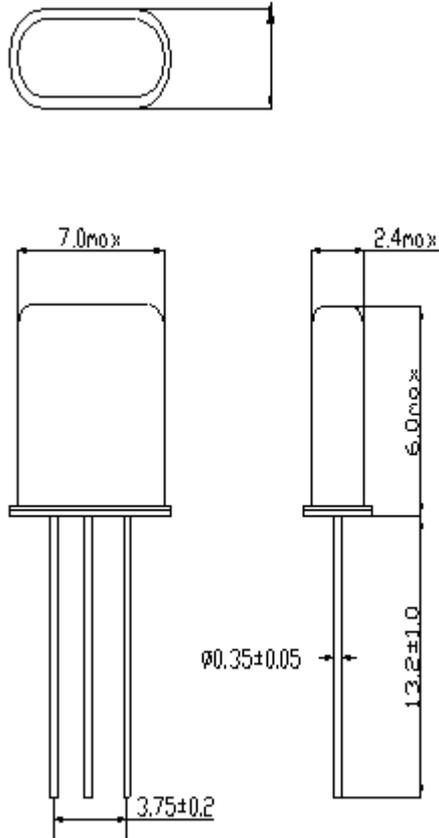
□ MECHANICAL DATA

<p>7.Solderability:</p>	<p>The lead(2to2.5mm from terminal to bottom) is immersed in a <math>230 \pm 5^{\circ}\text{C}</math> Solder bath within <math>2 \pm 0.5</math> seconds.                  The dipping surface of the lead shall be at least 95% covered with a Continuous new solder coating.                  Capacity testing requirement as vibration.</p>
<p>8. Resistance to soldering heat:</p>	<p>The(2 to 2.5mm from terminal to bottom) is immersed in a <math>350 \pm 10^{\circ}\text{C}</math> solder bath within <math>3.5 \pm 0.5</math> seconds.                  After testing, without distinct damage on the surface.                  Capacity testing requirement as vibration.</p>
<p>9. Resistance to heat:</p>	<p>Resistance to the lowest temperature: Stored at <math>-30 \pm 3^{\circ}\text{C}</math> 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 <math>70 \pm 2^{\circ}\text{C}</math> for 2 hours and then at normal temperature for 2 hours before testing.                  Capacity testing requirement as vibration.</p>
<p>10. Invariable humidity:</p>	<p>Stored at <math>40 \pm 3^{\circ}\text{C}</math> and <math>\text{RH}93\% \pm 2\%</math> for 48 hours and then at normal condition for 2 hours before testing. Without distinct damage to the surface.                  Capacity testing requirement as vibration.</p>

Test Circuit



R:  $570\Omega (\pm 10\%)$ , Ct:  $3.0\text{pf} (\pm 10\%)$ 。



**UM-5**