

CUSTOMER 客户:

规格书编号

SPEC NO:

产品规格书 SPECIFICATION

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|-------------------------|-----------------|------------|--------|--|
| PRODUCT 产品: | CRYSTAL FILTER | | | |
| MODEL NO 型 号: | UM-5-19.650M15B | | | |
| PREPARED 编 制: | LEO | CHECKED 审 | 核:YORK | |
| APPROVED 批准: | LIUMI | NG DATE 日 | 期: | |
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| 客户确认 CUSTOMER RECEIVED: | | | | |
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| | 审核 | 批 | 日 | |
| CHECKED | | 准 APPROVED | 期 DATE | |
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无锡市好达电子有限公司 Shoulder Electronics Limited

更改历史记录

History Record

| 改日期 | 格书编号 | 品型号 | 户产品型号 | 改内容描述 | 注 |
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SPECIFICATION SHEET

| □ 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 | ±7.5KHz min (at 3dB) | |
| 05 | Pass band ripple | 1.0dB max | |
| 06 | Insertion loss | 3.0dB max | |
| 07 | Stop Band width | ±25KHz max (at 35dB) | |
| 08 | Terminating impedance | 1600 Ω //2.0pf//8.0pf | |
| 09 | Operating Tem. Range | -20~+70℃ | |
| 10 | Insulated Resistance | 500M Ω (max)(DC100V) | |
| 11 | Aging per Year | ±3ppm | |

SPECIFICATION SHEET

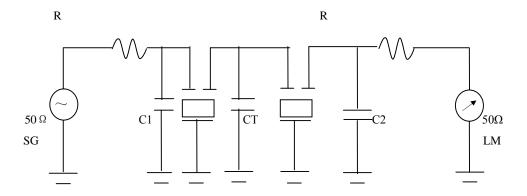
| □ MECHANICAL | DATA | |
|----------------------|--|--|
| 1. Marking: | | |
| 2.Shock Test: | Dropping from 50 cm height,3 times on 30mm-thick- hard wood, After testing, the electrical data follows the requirement. | |
| 3. Vibration Test: | 30 minutes in each direction 10 to 55 Hz, amplitude 0.75mm,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

SPECIFICATION SHEET

□ MECHANICAL DATA

| 7.Solderability: | The lead(2to2.5mm from terminal to bottom) is immersed in a $230\pm5^{\circ}\text{C}$ 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 $350\pm10^{\circ}\text{C}$ 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 $-20\pm3^{\circ}\mathbb{C}$ 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 $70\pm2^{\circ}\mathbb{C}$ for 2 hours and then at normal temperature for 2 hours before testing. Capacity testing requirement as vibration. |
| 10. Invariable humidity: | Stored at $40\pm3^{\circ}$ C and RH93% $\pm2\%$ 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: 1550Ω, C1,C2: 2.0pf, CT:8.0pf

