

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: _____ 49T-10.7M20A _____
PREPARED 编制: _____ LEO _____ CHECKED 审核: _____ YORK _____
APPROVED 批准: _____ PERCY _____ DATE 日期: _____ 2015-12-23 _____

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

1. SPECIFICATION

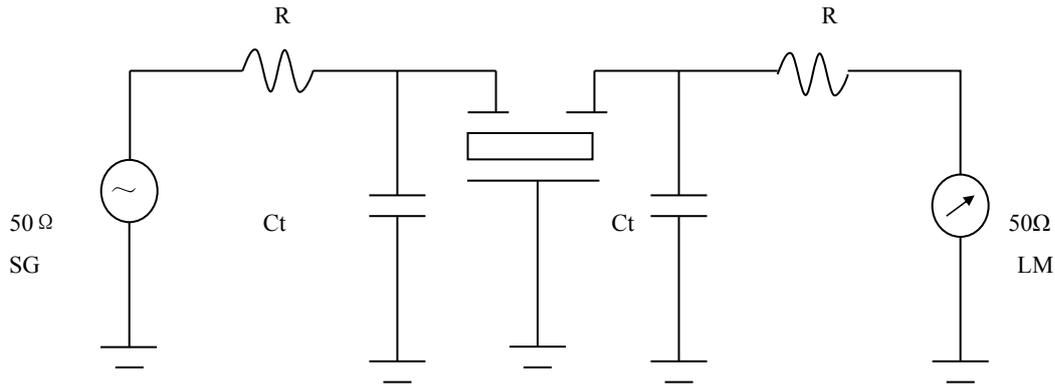
<input type="checkbox"/> APPLICATION This Standard Will Apply to The Quartz Crystals.		
<input type="checkbox"/> ELECTRICAL DATA		
NO	Speciality	Parameter
01	Holder type	MCF 49T
02	Mode of Oscillations	Fundamental
03	Center Frequency	10.700MHz
04	Pass bandwidth	±10KHz min (at 3dB)
05	Pass band ripple	0.5dB
06	Insertion loss	2.0dB
07	Stop Band width	±30KHz max (at 18dB)
08	Terminating impedance	3000 Ω //2.0pf
09	Operating Tem. Range	-20~+70°C
10	Insulated Resistance	500M Ω (max)(DC100V)
11	Aging per Year	±3ppm

2. MECHANICAL DATA

1. Marking:	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p>SDE</p> <p>10M20A</p> </div>
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:	<p>Tensile: Fix main body of crystal. Load 0.9kg pulling force along, terminal axial for 30±5 seconds.</p> <p>The terminal can not be pulled out or broken.</p> <p>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>
5. 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 fundamental. The resistance shall be at least 500MΩ (max) (DC100V).
6. Temperature cycle:	<p>2~3 min -20℃ to +70℃</p> <p>30min 30min</p> <p>After cycling three times, there is no distinct damage on the surface.</p> <p>Capacity testing requirement as vibration.</p>
7. Solderability:	<p>The lead(2to2.5mm from terminal to bottom) is immersed in a 230 ± 5℃ Solder bath within 2 ± 0.5 seconds.</p> <p>The dipping surface of the lead shall be at least 95% covered with a Continuous new solder coating.</p> <p>Capacity testing requirement as vibration.</p>
8. Resistance to soldering heat:	<p>The(2 to 2.5mm from terminal to bottom) is immersed in a 350 ± 10℃ solder bath within 3.5 ± 0.5 seconds.</p> <p>After testing, without distinct damage on the surface.</p> <p>Capacity testing requirement as vibration.</p>
9. Resistance to heat:	<p>Resistance to the lowest temperature: Stored at -20 ± 3℃ for 2 hours and then at normal temperature for 2 hours before testing.</p> <p>Capacity testing requirement as vibration.</p> <p>Resistance to the highest temperature: Stored at 70 ± 2℃ for 2 hours</p>

	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 $\text{RH}93\% \pm 2\%$ for 48 hours and then at normal condition for 2 hours before testing. Without distinct damage to the surface. Capacity testing requirement as vibration.

3. TEST CIRCUIT



R: $2950\Omega (\pm 10\%)$, Ct: $2.0\text{pf} (\pm 10\%)$ 。

5. DIMENSIONS

