

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 : _____ MCF14DIP-21M15D-E _____
PREPARED 编制 : _____ LEO _____ CHECKED 审核 : _____ YORK _____
APPROVED 批准 : _____ LIUMING _____ DATE 日期 : _____ 2012-11-23 _____

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

更改历史记录

History Record

更改日期 Date	规格书编号 Spec No	产品型号 Part No	客户产品型号 Customer No	更改内容描述 Modify Content	备注 Remark

SPECIFICATION SHEET

□ APPLICATION

This Standard Will Apply to The Quartz Crystals.

□ ELECTRICAL DATA

NO	Speciality	Parameter
01	Holder type	21M15D
02	Mode of Oscillations	Fundamental
03	Center Frequency	21.4MHz
04	Pass bandwidth	±7.5KHz min (at 3.0dB)
05	Pass band ripple	2.0dB max
06	Insertion loss	3.5dB max
07	Stop Band width	±25KHz max (at 80dB)
08	Terminating impedance	1.6KΩ//1.5pf
09	Operating Tem. Range	-40~+85°C
10	Insulated Resistance	500MΩ(max)(DC100V)
11	Aging per Year	±3ppm

SPECIFICATION SHEET

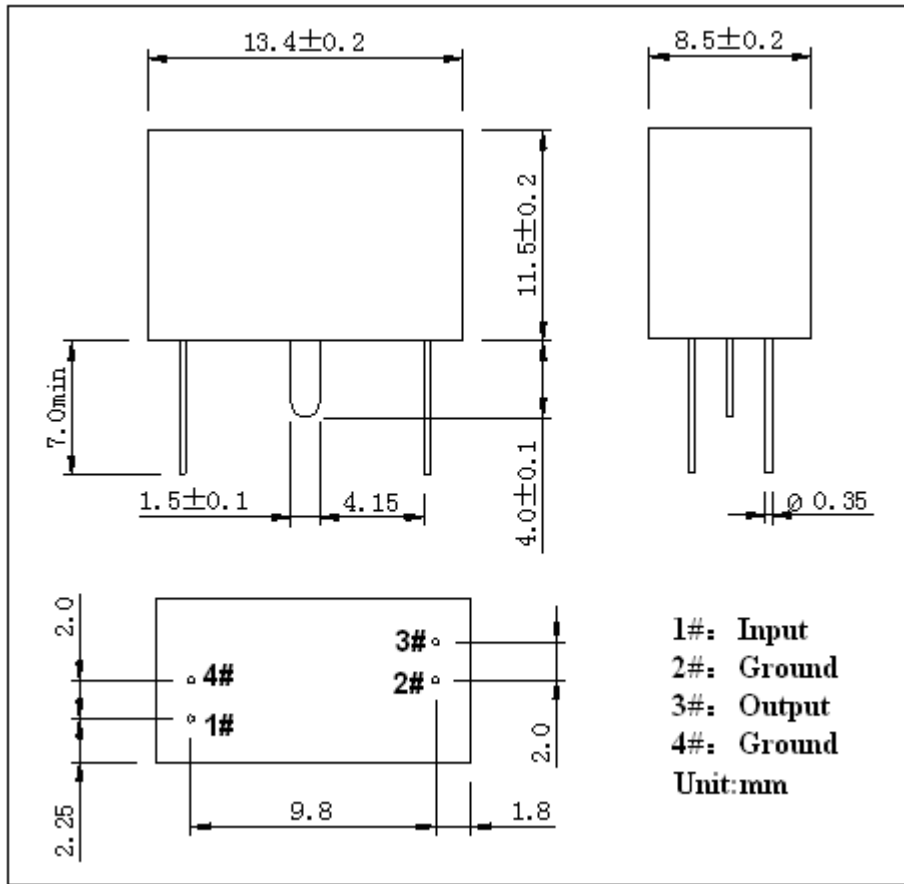
□ MECHANICAL DATA

1. Marking :	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>SDE 21M15D</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. 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 -40°C to +85°C 30min 30min</p> <p>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±5°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±10°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 -40±3°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 85±2°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±3°C and RH93%±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.



Title	Dimensions(13.4*8.5*11.5)		Article	21M15D	Page 1 of 1
Date	2012-6-15	Size	mm	Spec.No.	21.4
Issued			Discussed		
Checked			Approved		