

规格书编号

SPEC NO:

产品规格书 SPECIFICATION

CUSTOMER 客 户:		
PRODUCT 产品:	SAW RESONATO	OR
MODEL NO 型 号:	HDR868. 985MS2	05
PREPARED 编 制:	CHECKED 审 核	亥:
APPROVED 批准:	DATE日期	月: 2016-7-16
客户确认 CUSTOMER RE	CCEIVED:	
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



1. SCOPE

This specification shall cover the characteristics of 1-port SAW resonator with 868.35M used for remote-control security.

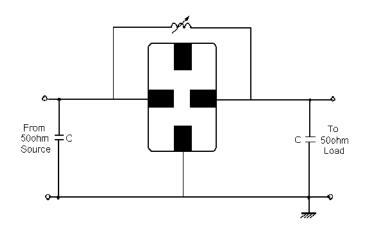
2. ELECTRICAL SPECIFICATION

DC Voltage VDC	10V
AC Voltage Vpp	10V50Hz/60Hz
Operation temperature	-40°C to +85°C
Storage temperature	-45°C to +85°C
RF Power Dissipation	0dBm

2.2 Electronic Characteristics

Item	Item		Minimum	Typical	Maximum
Center Frequency		MHz	868.735	868.985	869.235
Insertion Loss		dB		1.5	2.5
Quality Factor Unload Q			10000	12800	
50Ω Loaded (Q		1000	2000	
Temperature	Turnover Temperature	$^{\circ}$	10	25	40
Stability	Freq.temp.Coefficient	ppm/℃2		0.037	
Frequency Agin	ng	ppm/yr		<±10	
DC. Insulation	Resistance	МΩ	1.0		
RF	Motional Resistance R1	Ω		23	26
Equivalent	Motional Inductance L1	μН		20.773	
RLC Model	Motional Capacitance C1	fF		1.6173	
Transducer Stat	tic Capacitance	pF		1.8	

3. TEST CIRCUIT

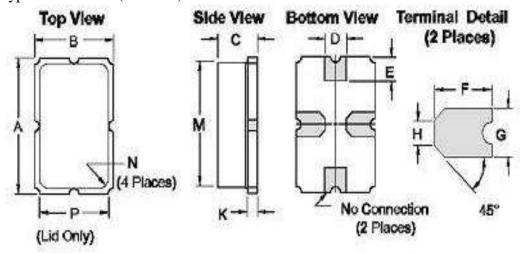




以 SHOULDER

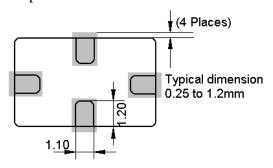
4. DIMENSION

4-1 Typical dimension(unit:mm)



Dimensions	Millimeters		Inches	
	Min	Max	Min	Max
A		5.97		0.235
В		3.94		0.155
С	70000	2.16		0.085
D	0.94	1.10	0.037	0.043
E	0.83	1.20	0.033	0.047
F	1.16	1.53	0.046	0.060
G	0.94	1.10	0.037	0.043
Н	0.43	0.59	0.017	0.023
K	0.43	0.59	0.17	0.023
M		5.31		0.209
N	0.38	0.64	0.015	0.025
Р		3.28		0.129

4-2 Typical circuit board land patter



SAW RESONATOR

5. ENVIRONMENTAL CHARACTERISTICS

5-1 Temperature cycling

Subject the device to a low temperature of -40°C for 30 minutes. Following by a high temperature of +25°C for 5 Minutes and a higher temperature of +85°C for 30 Minutes. Then release the device into the room conditions for 1 to 2 hours prior to the measurement. It shall meet the specifications in 2.2.

5-2 Resistance to solder heat

Submerge the device terminals into the solder bath at $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 10 ± 1 sec. Then release the device into the room conditions for 4 hours. It shall meet the specifications in 2.2.

5-3 Solderability

Submerge the device terminals into the solder bath at $245^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 5s, More than 95% area of the soldering pad must be covered with new solder. It shall meet the specifications in 2.2.

5-4 Mechanical shock

Drop the device randomly onto the concrete floor from the height of 1 m 3 times. the resonator shall fulfill the specifications in 2.2.

5-5 Vibration

Subject the device to the vibration for 2 hour each in x,y and z axes with the amplitude of 1.5 mm at 10 to 55 hz. The resonator shall fulfill the specifications in 2.2.

6. REMARK

6.1 Static voltage

Static voltage between signal load & ground may cause deterioration &destruction of the component. Please avoid static voltage.

6.2 Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning

6.3 Soldering

Only leads of component may be soldered. Please avoid soldering another part of component.