

规格书编号

SPEC NO:

产品规格书 SPECIFICATION

CUSTOMER 客户:			
PRODUCT 产品:	SAW RESONATOR		
MODEL NO 型 号:	HDR857.65M SMD-20		
PREPARED 编 制:	CHECKED 审 核:		
APPROVED 批 准:	DATE 目期:	2012-7-18	
客户确认 CUSTOMER R			
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

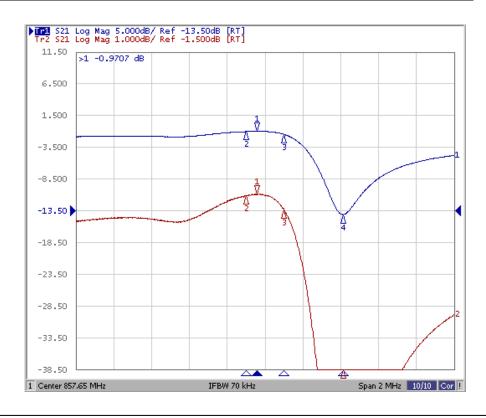
This specification shall cover the characteristics of 1-port SAW resonator with 857.65M used for remote-control security.

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	

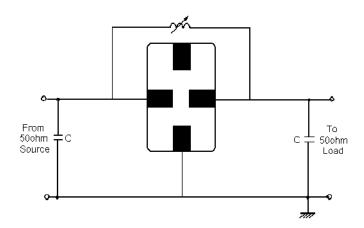
2.2 Electronic Characteristics

Item		Unites	Minimum	Typical	Maximum
Center Frequency		MHz	857.400	857.650	857.900
Insertion Loss		dB		1.5	3.5
Quality Factor Unload Q			5000	10000	
50 Ω Loaded Q			1000	2000	
Temperature	Turnover Temperature	$^{\circ}\!\mathbb{C}$		39	
Stability	Freq.temp.Coefficient	ppm/°C2		0.037	
Frequency Aging		ppm/yr		<±10	
DC. Insulation Resistance		$\mathbf{M} \Omega$	1.0		
Transducer Static Capacitance		pF		1.8	



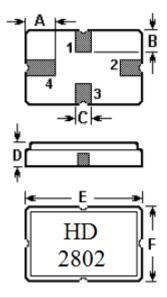


3. TEST CIRCUIT



4. DIMENSION

4-1 Typical dimension(unit: mm)



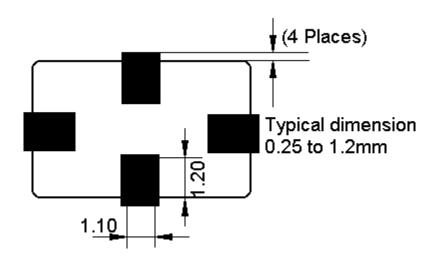
Sign	Data (unit: mm)	Sign	Data (unit: mm)
Α	1.2±0.1	D	1.4±0.1
В	0.8 ±0.1	Е	5.0±0.1
С	0.5	F	3.5±0.1



SAW RESONATOR

Pin	Pin Configuration	
1	Input / Output	
3	Output / Input	
2/4	Case Ground	

4-2 Typical circuit board land patter



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 $+25^{\circ}$ C for 5 Minutes and a higher temperature of $+85^{\circ}$ 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.



SAW RESONATOR

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.