KT 深圳华远微电科技有限公司 SHENZHEN HUAYUAN MICRO ELECTRONIC TECHNOLOGY CO., LTD.

# APPROVAL SHEET

Approval Specification	Customer's Approval Certificate			
то:	Checked & Approved by:			
Part No.:	Date:			
Customer's Part No.:	Please return this copy as a certification of your approval			

# Shenzhen Huayuan Micro Electronic Technology Co.Ltd.

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Part No.		R868
Pages	:	4
Date	:	2016/8/1
Revision		2.0

#### **SAW Resonator**

**R868** 

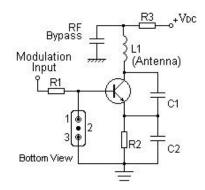
#### Features

- 1-port Resonator
- Metal Case for D11
- Package size 8.36x3.45x3.00 mm<sup>3</sup>
- RoHS compatible
- Electrostatic Sensitive Device(ESD)

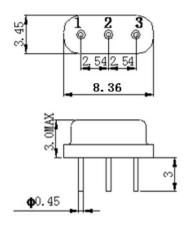


# Application

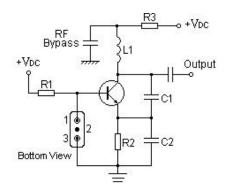
Typical Low-Power Transmitter Application



#### Package Dimensions (D11)



## Typical Local Oscillator Application



#### **Pin Configuration**

1	Input/Output				
3	Output/Input				
2	Case Ground				

# Marking



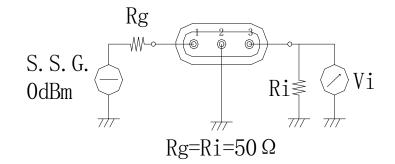
R	SAW Resonator				
868	Part number				

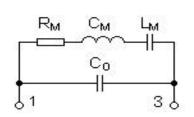
#### **SAW Resonator**

R868

#### **Test Circuit**







## Performance

#### **Maximum Rating**

ltem		Value	
DC Voltage	V <sub>DC</sub>	±30	V
Operation Temperature	Т	-40 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	°C
RF Power Dissipation	Р	25	dBm

#### **Electronic Characteristics**

Test Temperature: 25℃±2℃

Terminating source impedance:  $50\Omega$ 

# Terminating load impedance: 50Ω

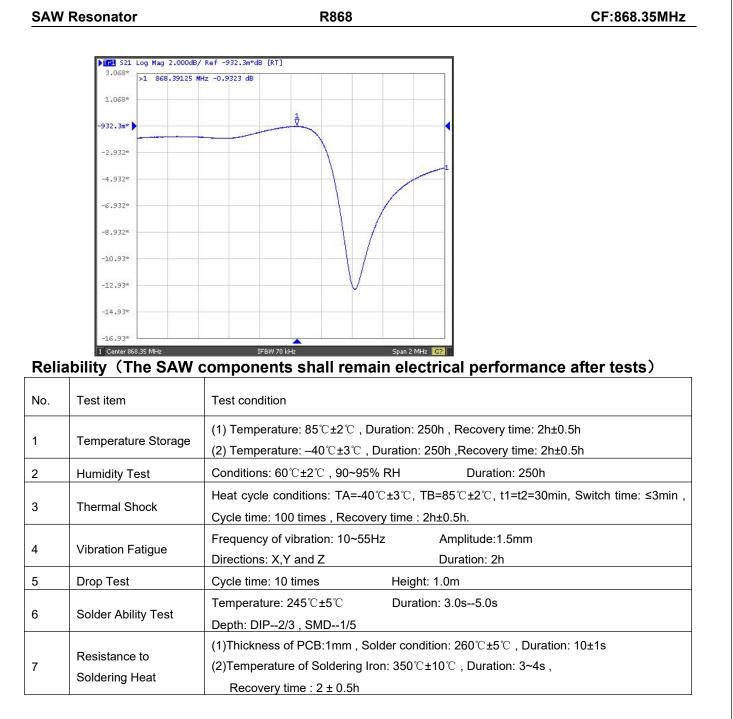
	ltem		Minimum	Typical	Maximum	Unit
Center Frequency	Absolute Frequency	fc		868.35		MHz
	Tolerance from 868.35MHz	$ riangle \mathbf{f_c}$		±150		KHz
Insertion Loss(r	nin)	IL		1.2	1.8	dB
Quality Factor	Unloaded Q	Qu		9450		
	50Ω Loaded Q	QL		1468		
Frequency Aging	Absolute Value during the First Year	f <sub>A</sub>		≤10		ppm/yr
DC Insulation R	Resistance between Any Two Pins		1.0			MΩ
RF Equivalent RLC Model	Motional Resistance	R <sub>M</sub>		6.85	10	Ω
	Motional Inductance	L <sub>M</sub>		14.67		μH
	Motional Capacitance	См		2.3		fF
	Static Capacitance	C <sub>0</sub>	1.8	2.0	2.2	pF

#### Frequency Response

Please read notes at the end of this document. - 3 -

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2016/8/1



## Notes

- 1. As a result of the particularity of inner structure of SAW products, it easy to be breakdown by electrostatic, so we should pay attention to **ESD protect** in the test.
- 2. **Static voltage** between signal load and ground may cause deterioration and destruction of the component. Please avoid static voltage.
- 3. **Ultrasonic cleaning** may cause deterioration and destruction of the component. Please avoid ultrasonic cleaning.
- 4. Only leads of component may be soldered. Please avoid soldering another part of component.
- 5. There is a close relationship between the device's performance and **matching network**. The specifications of this device are based on the test circuit shown above. L and C values may change depending on board layout. Values shown are intended as a guide only.

Please read notes at the end of this document. -4-

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