

深圳市晶力源科技有限公司

Shenzhen Jingliyuan Technology Co., Ltd.

产品规格书 SPECIFICATION

CUSTOMER(客户): _____
PRODUCT TYPE(型号): SMD-2016-2P SAW谐振器(无源)
NOMINAL FREQ(频率): 433.92MHz
JLY P/N(料号): Y2016433MFC2H
Brand(品牌): JLYE晶力源
CUSTOMER P/N(客户料号): _____

Client Opinion (客户意见)			
Hardware PL (工程)	QPM/SQE (品质)	Approval (核准)	Recognition (承认日期)

Provider (供应商)			
Drawn (制作)	Check (审核)	Approval (核准)	Submitted Date (日期)
刘来凤	徐超	李元	2026-3-19

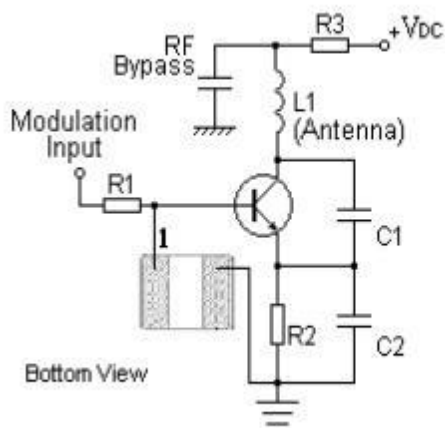
公司地址 Company address: 深圳市福田区天安数码时代大厦2310室
23Floor, The South Tower Hu Bei Building Bin He Road ,Fu tian District, Shen Zhen
电话 TEL:+86-755-88914319: 传真 FAX:+86-755-88914315
公司网址 Company website: <http://www.cpssz.com>: 邮箱地址: Lisa@cpssz.com

Features

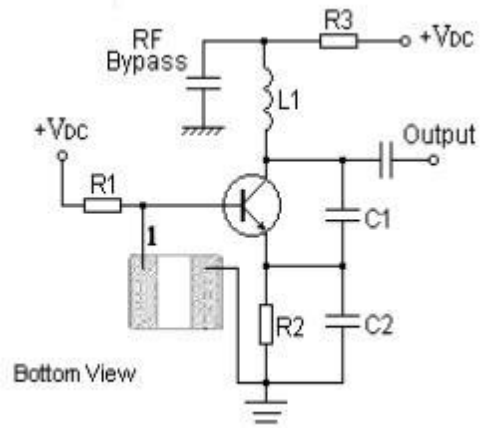
- 1-port Resonator
- CSP Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 2.00x1.60x0.90mm³
- **Electrostatic Sensitive Device(ESD)**

Application

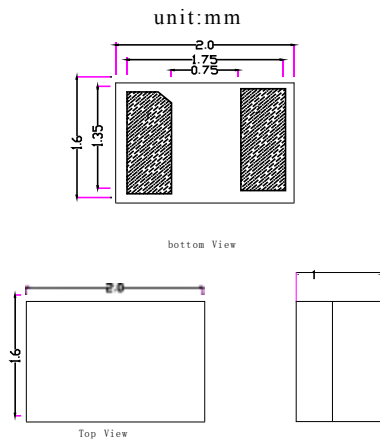
Typical Low-Power Transmitter Application



Typical Local Oscillator Application



Package Dimensions



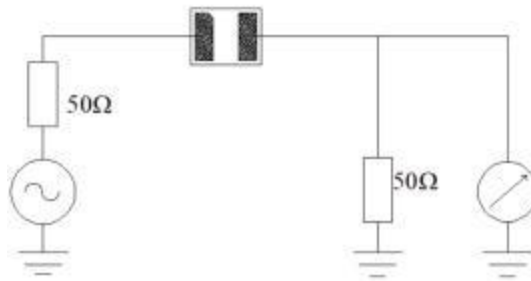
Pin Configuration

1	Input/ Output
2	Output/ Input

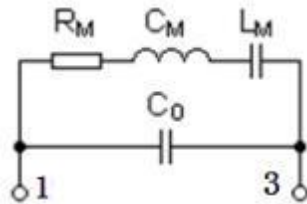
Marking

433.

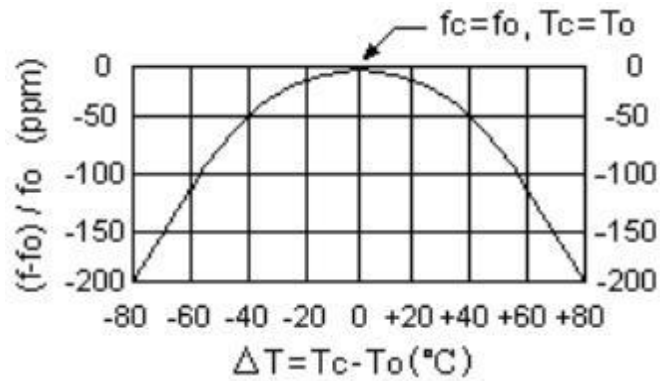
Test Circuit



Equivalent LC Model



Temperature Characteristics



The curve shown above accounts for resonator contribution only and does not include LC component temperature contributions.

Performance**Maximum Rating**

Item		Value	Unit
DC Voltage	V _{DC}	10	V
Operation Temperature	T	-40 ~ +85	°C
Storage Temperature	T _{stg}	-55 ~ +125	°C
RF Power Dissipation	P	10	dBm

Electronic Characteristics

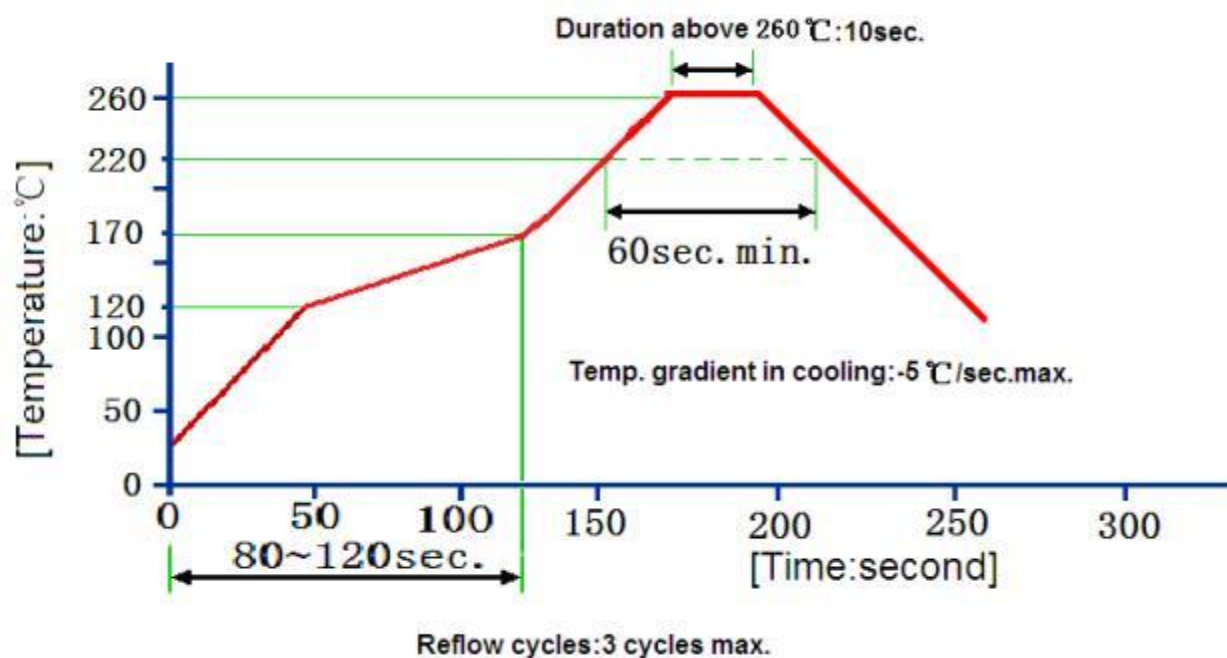
Test Temperature: 25°C ± 2°C

Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

Item			Minimum	Typical	Maximum	Unit
Center Frequency	Absolute Frequency	f _c	433.820	433.920	434.070	MHz
	Tolerance from 433.920MHz	Δf _c		±100		KHz
Insertion Loss(min)		IL		1.3	2.2	dB
Quality Factor	Unloaded Q	Q _u		12000		
	50Ω Loaded Q	Q _L		1500		
Temperature Stability	Turnover Temperature	T _o	10	25	40	°C
	Turnover Frequency	f _o		f _c		
	Frequency Temperature Coefficient	FTC		0.032		ppm/°C
Frequency Aging	Absolute Value during the First Year	f _A		≤10		ppm/yr
DC Insulation Resistance between Any Two Pins			1.0			MΩ
RF Equivalent RLC Model	Motional Resistance	R _M		12.196		Ω
	Motional Inductance	L _M		183.82		μH
	Motional Capacitance	C _M		0.733		fF
	Static Capacitance	C _o		2.23		pF

Recommended Reflow Soldering Diagram



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.
6. The temperature of manual welding should not exceed 300 °C .