SPEC NO.: SRD-002L

SPECIFICATION

TO:STE966
Model Name: SAW Resonator
PART NO: SSR315N01D12
CUSTOMER PART NO.:

STRONG ELECTRONICS&TECHNOLOGY LIMITED

深圳市思硕电子科技有限公司

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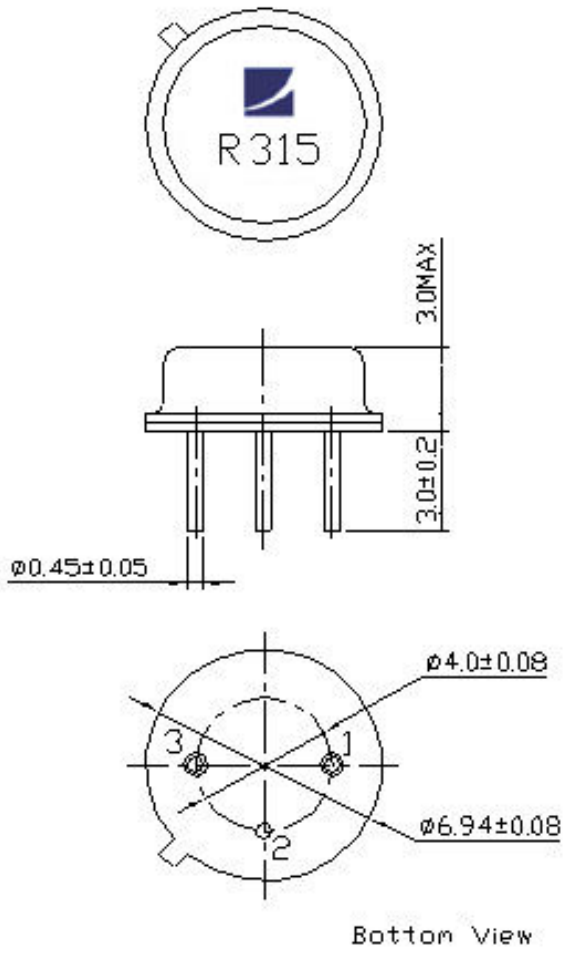
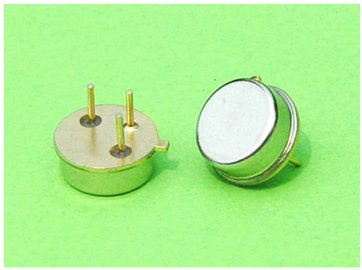
1. Package Dimension

(D12) Unit: mm





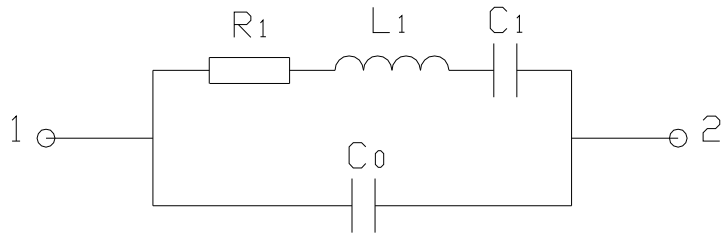
Pin No.	Function
Pin 1	Input
Pin 2	Ground
Pin 3	Output

2. Marking

R315

1. Black Ink Marking
2. R: Product Code
3. 01: One-port SAW Resonator
4. 315: Center Frequency

3. Equivalent LC Model



4. Performance

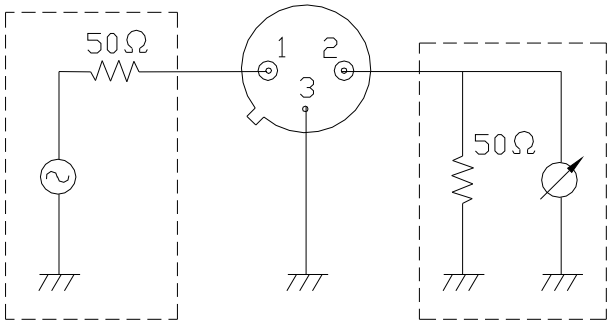
4.1 Maximum Rating

Item	Value
Operation Temperature Range	-40□ to +80□
Storage Temperature Range	-45□ to +85□
DC Voltage	10V
Source Power	0 dBm

4.2 Electronic Characteristics

Item	Units	Minimum	Typical	Maximum
Center Frequency (fo)	MHz	314.925	315	315.075
Insertion Loss	dB	—	1.5	2.0
Quality Factor				
Unloaded Q	—	—	11,000	—
50Ω Loaded Q	—	—	2,000	—
Temperature Stability				
Turnover Temperature	□	—	25	—
Freq. Temp. Coefficient	ppm/□	—	0.032	—
Frequency Aging	ppm/yr	—	<±10	—
DC Insulation Resistance	MΩ	1.0	—	—
RF Equivalent RLC Model				
Motional Resistance R1	Ω	—	18	26
Motional Inductance L1	μH	—	86	—
Motional Capacitance C1	fF	—	1.56	—
Shunt Static Capacitance C0	pF	1.7	2.0	2.3

4.3 Test Circuit



Note: Reference temperature shall be 25±2℃. However, the measurement may be carried out at 5℃ to 35℃ unless there is a dispute.

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