

Shoulder 好达

SHOULDER ELECTRONICS CO., LTD.

SAW Components Data Sheet

PRODUCT 产 品: SAW RESONATOR

MODEL NO 型 号: HDR□□□D TO39

PREPARED 编 制:

CHECKED 审 核:

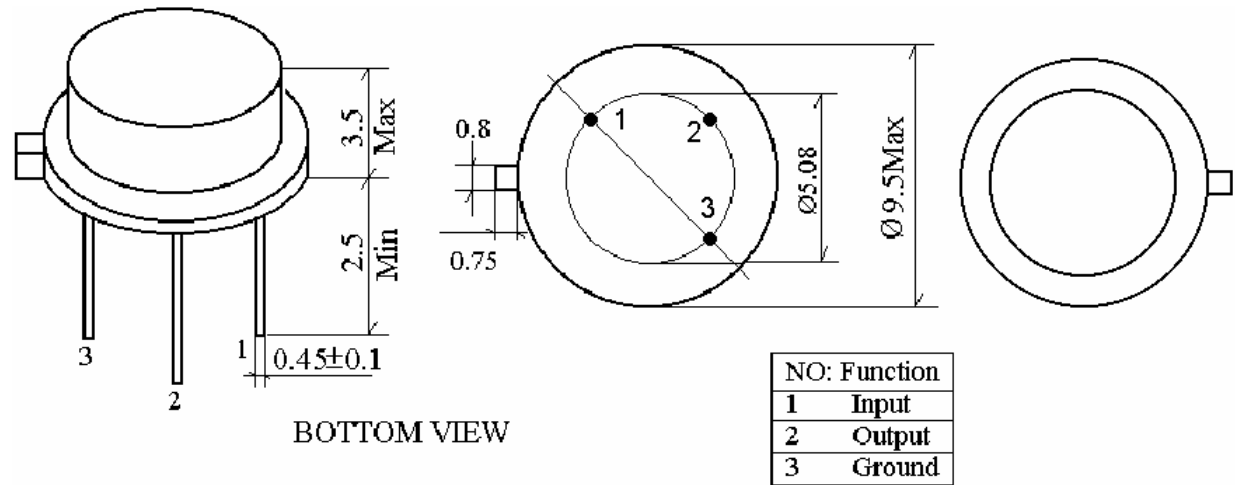
APPROVED 批 准:

DATE 日 期: 2007-01-25

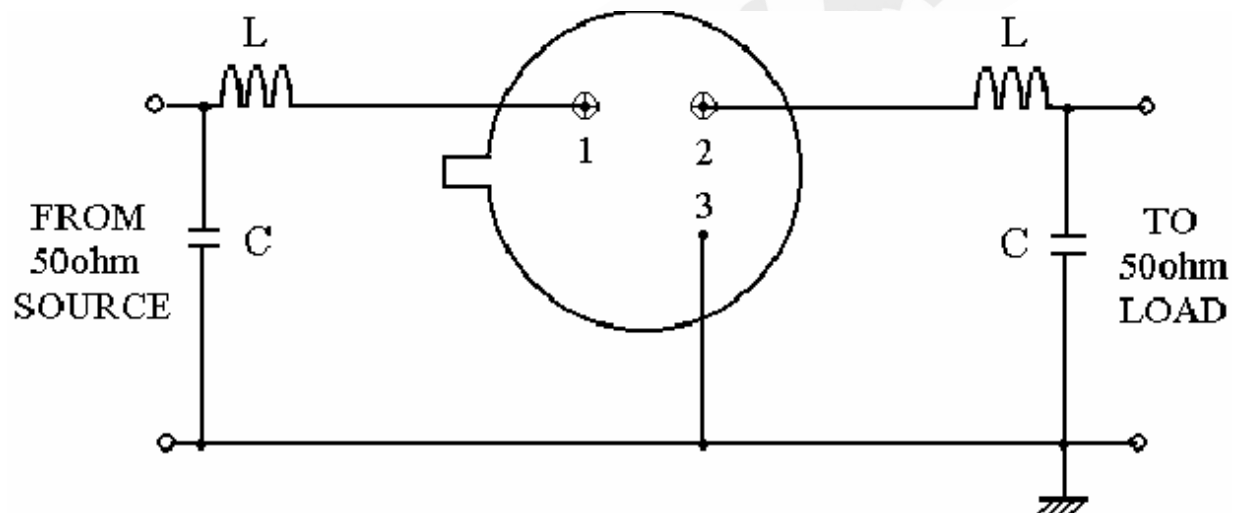
1.SCOPE

This specification is applied to a 2-PORT type SAW resonator designed for the stabilization of transmitters such as garage door openers and security transmitters.

2. DIMENSION



3. TEST CIRCUIT



4. Electrical characteristics

Part number		min	typ	max	unit
Center Frequency		Table 1			
Insertion Loss			7.0	8.0	dB
Quality Factor Unload Q			12.000		
50 Ω Loaded Q			6.300		
Temperature Stability	Turnover Temperature	36	51	66	$^{\circ}\text{C}$
	Turnover Frequency		$f_0 \pm 11$		KHz
	Freq.temp.Coefficient		0.037		ppm/ $^{\circ}\text{C}^2$
Frequency Aging			$< \pm 10$		ppm/yr
DC. Insulation Resistance		1.0			M Ω
RF Equivalent RLC Model	Motional Resistance R1		107	152	Ω
	Motional Inductance L1		481.378		μH
	Motional Capacitance C1		0.2794		pF
Shunt Static Capacitance			1.3		pF

Table 1

F ₀ (MHz)	Frequency accuracy (KHz)	F ₀ (MHz)	Frequency accuracy (KHz)
224.500	± 75	414.000	± 75
303.825	± 75	418.000	± 75
307.300	± 75	423.220	± 75
335.100	± 75	433.420	± 75
315.000	± 75	434.920	± 75
380.000	± 75	437.000	± 75
384.050	± 75	447.000	± 75
391.800	± 75	479.000	± 75
402.550	± 75	824.250	± 250
403.000	± 75	868.500	± 250