

SMD ONE PORT 315.0 MHz SAW RESONATOR

ASR315S2



RoHS
Compliant



5 x 3.5 x 1.5mm

STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency F_0		MHz	314.925	315.000	315.075
Tolerance from F_0		KHz		± 75	
Insertion Loss		dB	-	1.7	2.4
Quality Factor	Unloaded	-		12,200	
	50 Ω loaded			1,500	
Temperature Stability	Turnover Temperature	$^{\circ}\text{C}$	20	35	50
	Turnover Frequency	KHz		F_c	
	Freq. Temp. Coefficient	ppm/ $^{\circ}\text{C}^2$		0.032	
Frequency Aging		ppm/year		± 10	
DC Insulation Resistance		M Ω	1.0		
RF Equivalent RLC Model	Motional Resistance R_1	Ω		14	25
	Motional Inductance L_1	μH		86	
	Motional Capacitance C_1	fF		2.95	
	Shunt Capacitance C_0	pF		2.4	
Operating temp.		$^{\circ}\text{C}$	-45°C to $+85^{\circ}\text{C}$		
Storage temp.		$^{\circ}\text{C}$	-45°C to $+85^{\circ}\text{C}$		
Max. Rating	DC voltage	V	$\pm 10\text{V}$		
RF Power Dissipation		dBm	0		

(*) Option 75 for $\pm 0.075\text{MHz}$

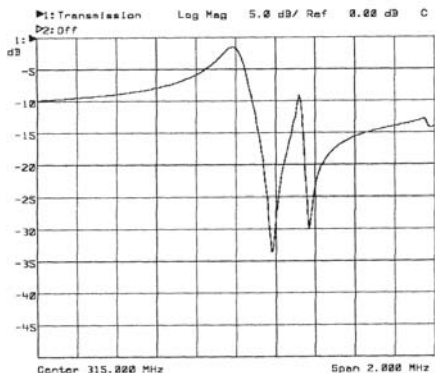
Data measured with: Source Impedance: $Z_s=50\Omega$, Load Impedance: $Z_L=50\Omega$, $T_A=25^{\circ}\text{C}$
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

- 315R (315.0 Frequency in MHz)
- A ZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004
X: Traceability code)

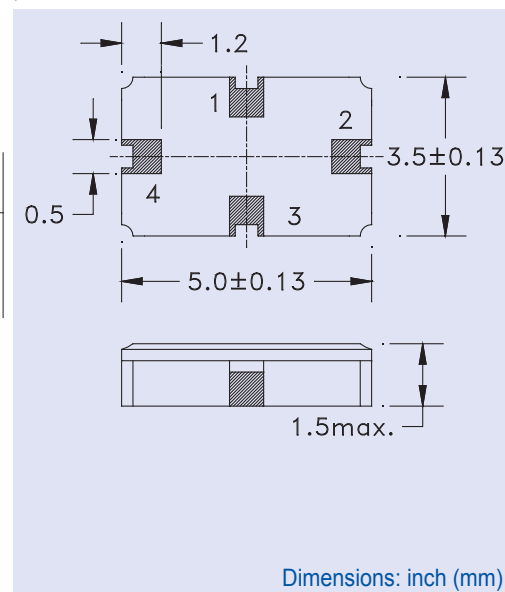
PIN NO.	CONNECTIONS
1	Input/Output
2	GND
3	Output/Input
4	GND

FREQUENCY RESPONSE:



TEST CIRCUIT:

OUTLINE DRAWING:



ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

ABRACON IS
ISO9001:2008
CERTIFIED



30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com