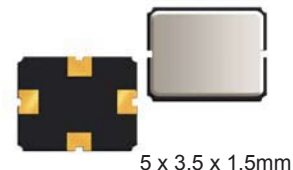


# SMD ONE PORT 315.0 MHz SAW RESONATOR

ASR315S2



## STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	314.925	315.000	315.075
Tolerance from Fo		KHz		±75	
Insertion Loss		dB	-	1.7	2.4
Quality Factor	Unloaded	-		12,200	
	50Ω loaded			1,500	
Temperature Stability	Turnover Temperature	°C	20	35	50
	Turnover Frequency	KHz		Fc	
	Freq. Temp. Coefficient	ppm/°C <sup>2</sup>		0.032	
Frequency Aging		ppm/year		±10	
DC Insulation Resistance		MΩ	1.0		
RF Equivalent RLC Model	Motional Resistance R <sub>1</sub>	Ω		14	25
	Motional Inductance L <sub>1</sub>	μH		86	
	Motional Capacitance C <sub>1</sub>	fF		2.95	
	Shunt Capacitance C <sub>0</sub>	pF		2.4	
Operating temp.		°C	-45°C to +85°C		
Storage temp.		°C	-45°C to +85°C		
Max. Rating	DC voltage	V	±10V		
RF Power Dissipation		dBm	0		

(\*) Option 75 for ± 0.075MHz

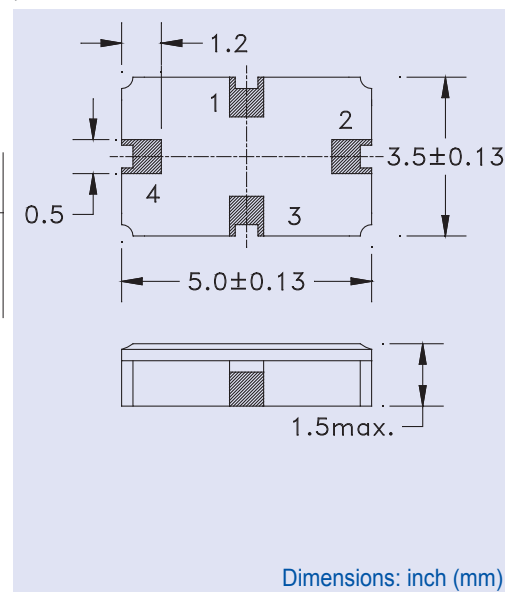
Data measured with: Source Impedance: Z<sub>s</sub>=50Ω, Load Impedance: Z<sub>L</sub>=50Ω, T<sub>A</sub>=25°C  
Electrostatic Sensitive Device. Handle with precaution.

## MARKING:

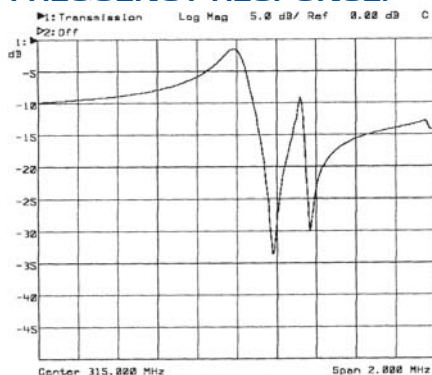
- 315R (315.0 Frequency in MHz)
- A ZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004; X: Traceability code)

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

## OUTLINE DRAWING:



## FREQUENCY RESPONSE:



## TEST CIRCUIT:

**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.

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