

# SMD ONE PORT 915 MHz SAW RESONATOR

ASR915E



RoHS  
Compliant



5 x 5 x 1.35mm

## STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	914.85	915.00	915.15
Tolerance from Fo		KHz		±150	
Insertion Loss		dB	-	1.5	3.0
Quality Factor	Unloaded	-		45,000	
	50Ω loaded			2,100	
Temperature Stability	Turnover Temperature	°C		39.0	
	Turnover Frequency	KHz		Fo+2.7	
	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		28.0	40
	Motional Inductance L <sub>1</sub>	μH		46.8	
	Motional Capacitance C <sub>1</sub>	fF		3.0	
	Shunt Capacitance C <sub>0</sub>	pF	1.0	1.3	1.6
Operating temp.		°C	-40°C to +85°C		
Storage temp.		°C	-45°C to +85°C		
Max. Rating	DC voltage	V	±10		
RF Power Dissipation		dBm	0		

Data measured with: Source Impedance: Z<sub>s</sub>=50Ω, Load Impedance: Z<sub>L</sub>=50Ω, T<sub>A</sub>=25°C

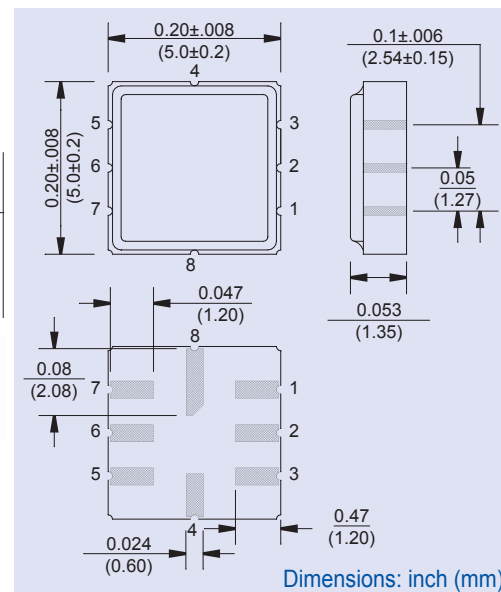
Electrostatic Sensitive Device. Handle with precaution.

## MARKING:

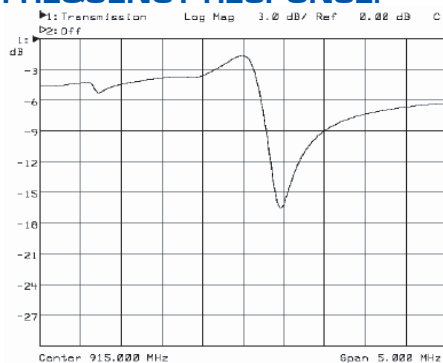
- 915R (915 Frequency in MHz)
- A ZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004 X: Traceability code)

PIN NO.	CONNECTIONS
1	Input GND
2	Input
5	Output GND
6	Output
3,7	To be GNDed
4,8	Case GND

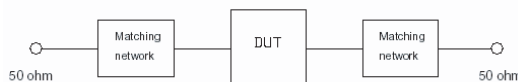
## OUTLINE DRAWING:



## 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.

ABRACON IS  
ISO 9001:2008  
CERTIFIED



30332 Esperanza, Rancho Santa Margarita, California 92688  
tel 949-546-8000 | fax 949-546-8001 | [www.abracon.com](http://www.abracon.com)