

# SMD ONE PORT 315.00 MHz SAW RESONATOR



5 x 5 x 1.35mm

ASR315E



RoHS  
Compliant

## 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	-	1.4	2.0
Quality Factor	Unloaded	-		10,750	
	50Ω loaded			1,600	
Temperature Stability	Turnover Temperature	°C	25.0		55
	Turnover Frequency	KHz		$f_0$	
	Freq. Temp. Coefficient	ppm/°C <sup>2</sup>		0.03	
Frequency Aging		ppm/year		<±10	
DC Insulation Resistance		MΩ	1.0		
RF Equivalent RLC Model	Motional Resistance $R_1$	Ω		17.5	26
	Motional Inductance $L_1$	μH		95.0359	
	Motional Capacitance $C_1$	fF		2.6889	
	Shunt Capacitance $C_0$	pF	1.8	3.0	2.2
Operating temp.		°C	-40°C to +85°C		
Storage temp.		°C	-45°C to +85°C		
Max. Rating	DC voltage	V	±30		
Soldering Temperature		°C	250		
RF Power Dissipation		dBm	0		

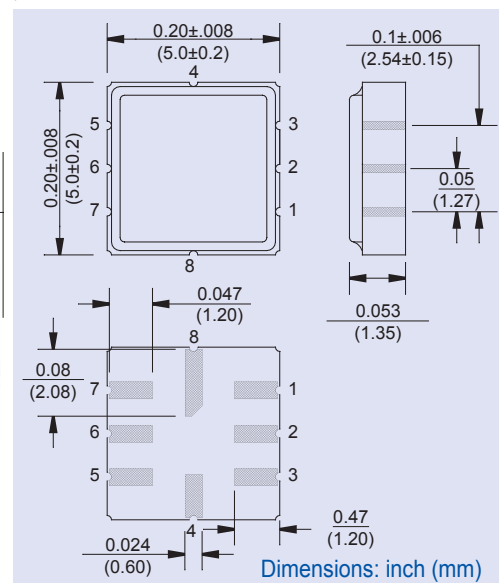
Data measured with: Source Impedance:  $Z_s=50\Omega$ , Load Impedance:  $Z_L=50\Omega$ ,  $T_A=25^\circ\text{C}$   
Electrostatic Sensitive Device. Handle with precaution.

## MARKING:

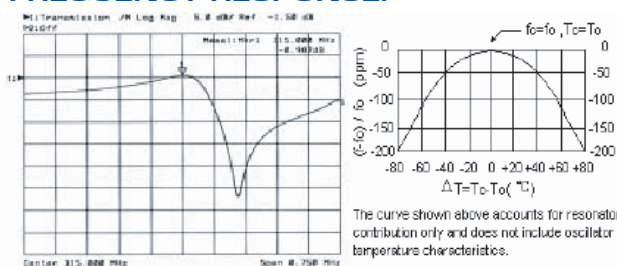
- 315.00 (315 Frequency in MHz)
- AR ZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004 X: Traceability code)

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

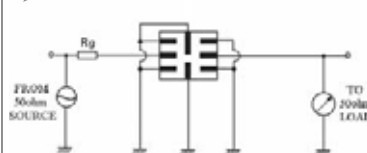
## OUTLINE DRAWING:



## FREQUENCY RESPONSE:



## TEST CIRCUIT:



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ABRACON IS  
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