

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	
	50 Ω loaded			1,600	
Temperature Stability	Turnover Temperature	$^{\circ}\text{C}$	25.0		55
	Turnover Frequency	KHz		F_0	
	Freq. Temp. Coefficient	ppm/ $^{\circ}\text{C}^2$		0.03	
Frequency Aging		ppm/year		$<\pm 10$	
DC Insulation Resistance		M Ω	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.		$^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$		
Storage temp.		$^{\circ}\text{C}$	-45 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$		
Max. Rating	DC voltage	V	± 30		
Soldering Temperature		$^{\circ}\text{C}$	250		
RF Power Dissipation		dBm	0		

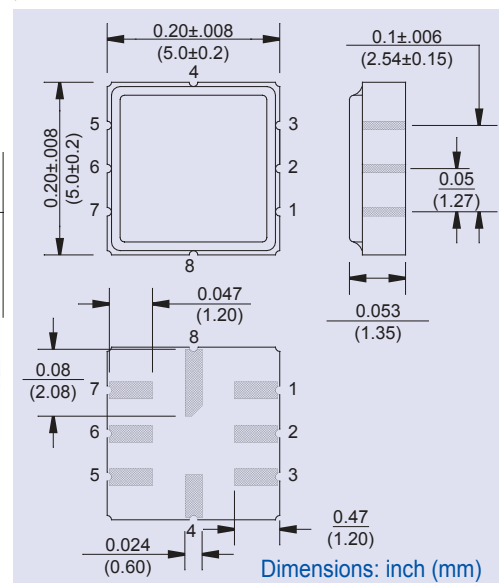
Data measured with: Source Impedance: $Z_s=50\Omega$, Load Impedance: $Z_L=50\Omega$, $T_A=25^{\circ}\text{C}$
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

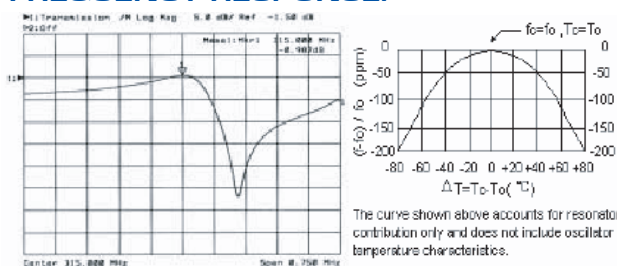
- 315.00 (315 Frequency in MHz)
- AR ZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004 X: Traceability code)

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

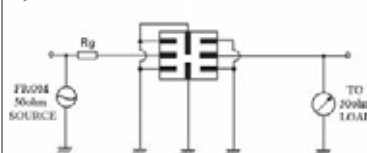
OUTLINE DRAWING:



FREQUENCY RESPONSE:



TEST CIRCUIT:



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