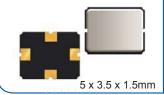
# SMD ONE PORT 310.00E MHz SAW RESONATOR

ASR310S2





### > STANDARD SPECIFICATIONS:

CHARACTERISTICS			UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	309.925	310.000	310.075	
Tolerance from Fo		KHz		±75		
Insertion Loss		dB	-	1.5	2.2	
Quality Factor	Unloaded		-		15,333	
	50Ω loaded				2,000	
Temperature Stability	Turnover Temperature		°C	24	39	54
	Turnover Frequency		KHz		Fc	
	Freq. Temp. Coefficient		ppm/°C <sup>2</sup>		0.037	
Frequency Aging		ppm/year		±10		
DC Insulation Resistance		MΩ	1.0			
RF Equivalent RLC Model	Motional Resistance R₁		Ω		19	29
	Motional Inductance L <sub>1</sub>		μΗ		118.143	
	Motional Capacitance C <sub>1</sub>		fF		2.2333	
	Shunt Capacitance C <sub>0</sub>		pF	1.8	2.1	2.4
Operating temp.		°C	-40°C to +85°C			
Storage temp.		°C	-40°C to +85°C			
Max. Rating	DC voltage V		±10			
RF Power Dissipation		dBm	10			

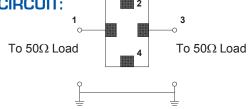
Electrostatic Sensitive Device. Handle with precaution.

### > MARKING:

- ASR310 ZYX (Z for month from A to L; Y for year, I.e. 4 for 2004, X: Traceability code)

PIN NO.	CONNECTIONS		
1	Input/Output		
3	Output/Input		
2 & 4	Case Ground		

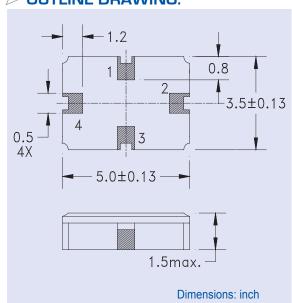
### > TEST CIRCUIT:



#### > NOTES:

- 1) Frequency aging is specified at  $65^{\circ}\text{C}$  or less.
- 2) The center frequency Fc, is the frequency of minimum IL with the resonator in the specified test fixture in a  $50\Omega$  test system with VSWR <=1.2.
- 3) Unless otherwise specified, case temperature is 25°C ± 2°C.
- 4) The design model values are for reference only. The capacitance C0 is the measured static capacitance between either pin 1 and ground or pin 2 to ground.

### > OUTLINE DRAWING:



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