SMD ONE PORT 314.5 MHz SAW RESONATOR

ASR314.5





> STANDARD SPECIFICATIONS:

CHARACTERISTICS			UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	314.425	314.5	314.575	
Tolerance from Fo		KHz		±75		
Insertion Loss		dB	-	1.5	2.0	
Quality Factor	Unloaded		-		12,500	
	50Ω loaded				2,000	
Temperature Stability	Turnover Temperature		°C	25	40	55
	Turnover Frequency		KHz		Fc	
	Freq. Temp. Coefficient		ppm/°C2		0.037	
Frequency Aging		ppm/year		±10		
DC Insulation Resistance		$M\Omega$	1.0			
RF Equivalent RLC Model	Motional Resistance R ₁		Ω		19	26
	Motional Inductance L ₁		μΗ		120.503	
	Motional Capacitance C ₁		fF		2.1274	
	Shunt Capacitance C ₀		pF		2.25	
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			

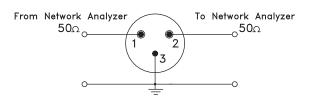
Electrostatic Sensitive Device. Handle with precaution.

> MARKING:

- ASR314.5

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

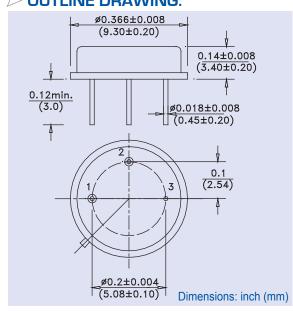
> TEST CIRCUIT:



> NOTES:

- 1) Frequency aging is specified at 65°C or less.
- 2) The center frequency Fc, is the frequency of minimum IL with the resonator in the specified test fixture in a 50Ω 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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