# SMD ONE PORT 433.92 MHz SAW RESONATOR

ASR433T





## > STANDARD SPECIFICATIONS:

CHARACTERISTICS			UNIT	MIN.	TYP.	MAX.
Center Frequency Fo			MHz	433.845	433.920	434.995
Tolerance from Fo		KHz		±75		
Insertion Loss		dB	-	1.3	2.0	
Quality Factor	Unloaded		-		10,500	
	50Ω loaded				1,450	
Temperature Stability	Turnover Temperature		°C	25	40	55
	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 R <sub>1</sub>		Ω		16	26
	Motional Inductance L <sub>1</sub>		μΗ		61.724	
	Motional Capacitance C <sub>1</sub>		fF		2.1817	
	Shunt Capacitance C <sub>0</sub>		pF		2.2	
Operating temp.		°C	-40°C to +85°C			
Storage temp.		°C	-40°C to +85°C			
Max. Rating	DC voltage	e V ±10				
RF Power Dissipation		dBm	10			

Electrostatic Sensitive Device. Handle with precaution.

# > MARKING:

- ASR433T

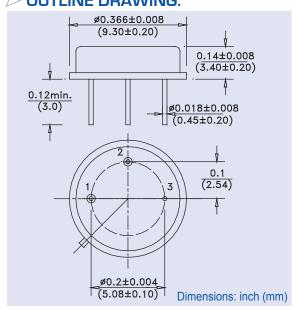
PIN NO. CONNECTION	
1	Input/Output
2	Output/Input
3	Case GND

# TEST CIRCUIT: From Network Analyzer 500 1 2 To Network Analyzer 500

### > 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  $50\Omega$  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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