

# SMD ONE PORT 433.42 MHz SAW RESONATOR

ASR433.42



**RoHS**  
Compliant



9.3 x 3.4mm

## STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	433.345	433.420	433.495
Tolerance from Fo		KHz		±75	
Insertion Loss		dB	-	2.0	2.5
Quality Factor	Unloaded	-		10,600	
	50Ω loaded			2,200	
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		26	33
	Motional Inductance L <sub>1</sub>	μH		101.841	
	Motional Capacitance C <sub>1</sub>	fF		1.3254	
	Shunt Capacitance C <sub>0</sub>	pF		2.1	
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		

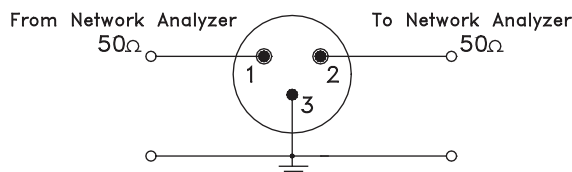
Electrostatic Sensitive Device. Handle with precaution.

## MARKING:

- ASR433.42

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

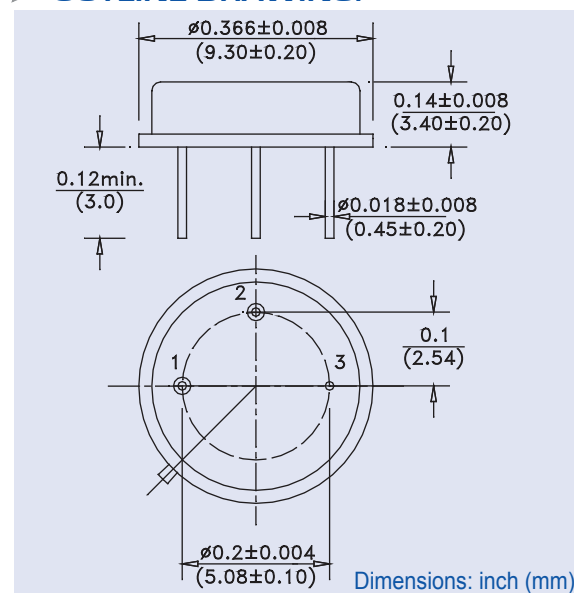
## TEST CIRCUIT:



## NOTES:

- 1) Frequency aging is specified at 65°C or less.
- 2) The center frequency F<sub>c</sub>, 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 C<sub>0</sub> is the measured static capacitance between either pin 1 and ground or pin 2 to ground.

## OUTLINE DRAWING:



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