

# SMD TWO PORT 433.92E MHz SAW RESONATOR



5 x 5 x 1.35mm

ASQ433.92E



**RoHS**  
Compliant

## STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	433.82	433.920	434.020
Tolerance from Fo		KHz		±100	
Insertion Loss		dB	-	6.5	8.0
Quality Factor	Unloaded	-		13,000	
	50Ω loaded			6,500	
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		100	151
	Motional Inductance L <sub>1</sub>	μH		477.061	
	Motional Capacitance C <sub>1</sub>	fF		0.2823	
	Shunt Capacitance C <sub>0</sub>	pF		2.2	2.5
Operating temp.		°C	-25°C to +85°C		
Storage temp.		°C	-40°C to +85°C		
Max. Rating	DC voltage	V	±10		
RF Power Dissipation		dBm	10		

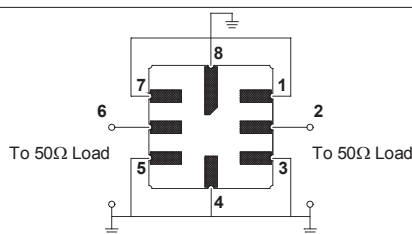
Electrostatic Sensitive Device. Handle with precaution.

## MARKING:

- ASQ433.92E

PIN NO.	CONNECTIONS
2	Input/Output
6	Output/Input
4 & 8	Case GND
1,3,5,7	N/C

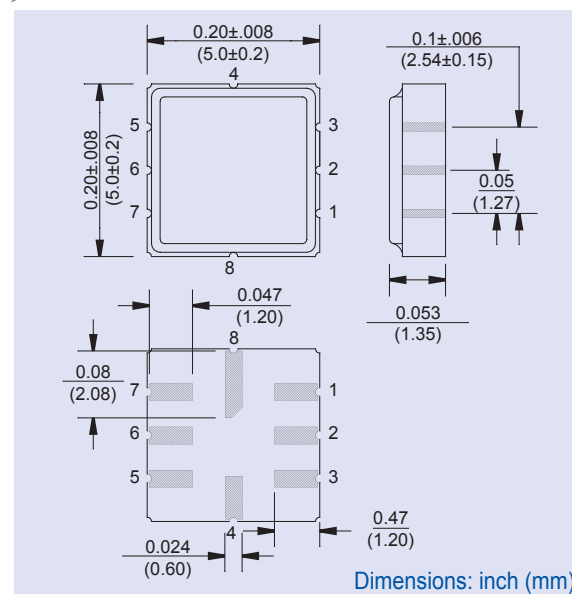
## TEST CIRCUIT:



## 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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