

SMD ONE PORT 433.42 MHz SAW RESONATOR

ASR433.42E



RoHS
Compliant



5 x 5 x 1.35mm

STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency F_0		MHz	433.345	433.420	433.495
Tolerance from F_0		KHz		± 75	
Insertion Loss		dB	-	1.5	2.5
Quality Factor	Unloaded	-		10,600	
	50 Ω loaded			2,200	
Temperature Stability	Turnover Temperature	$^{\circ}\text{C}$	25	40	55
	Turnover Frequency	KHz		F_c	
	Freq. Temp. Coefficient	ppm/ $^{\circ}\text{C}^2$		0.037	
Frequency Aging		ppm/year		± 10	
DC Insulation Resistance		M Ω	1.0		
RF Equivalent RLC Model	Motional Resistance R_1	Ω		19.0	33
	Motional Inductance L_1	μH		101.841	
	Motional Capacitance C_1	fF		1.3254	
	Shunt Capacitance C_0	pF		2.3	
Operating temp.		$^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$		
Storage temp.		$^{\circ}\text{C}$	-45 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$		
Max. Rating	DC voltage	V	± 10		
RF Power Dissipation		dBm	10		

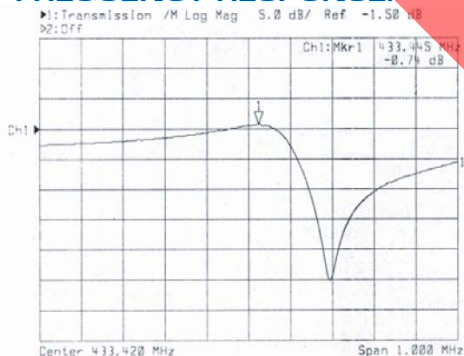
Data measured with: Source Impedance: $Z_s=50\Omega$, Load Impedance: $Z_L=50\Omega$, $T_A=25^{\circ}\text{C}$
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

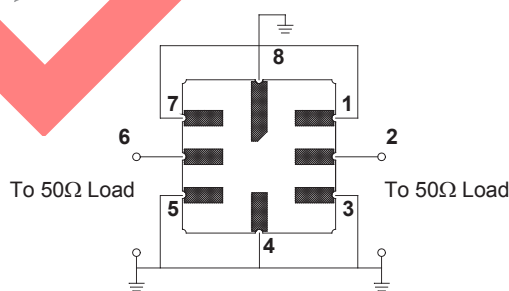
- 433.42R (433.42 Frequency in MHz)
- A ZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004
X: Traceability code)

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

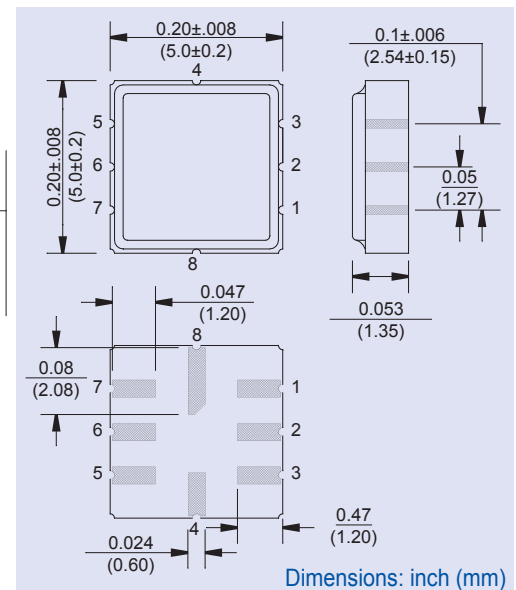
FREQUENCY RESPONSE:



TEST CIRCUIT:



OUTLINE DRAWING:



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