



**THE DATASHEET OF
ASR433.42E-T**



SMD ONE PORT 433.42 MHz SAW RESONATOR



5 x 5 x 1.35mm

ASR433.42E



RoHS
Compliant

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	-	1.5	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 ²		0.037	
Frequency Aging		ppm/year		±10	
DC Insulation Resistance		MΩ	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.		°C	-40°C to +85°C		
Storage temp.		°C	-45°C to +85°C		
Max. Rating	DC voltage	V	±10		
RF Power Dissipation		dBm	10		

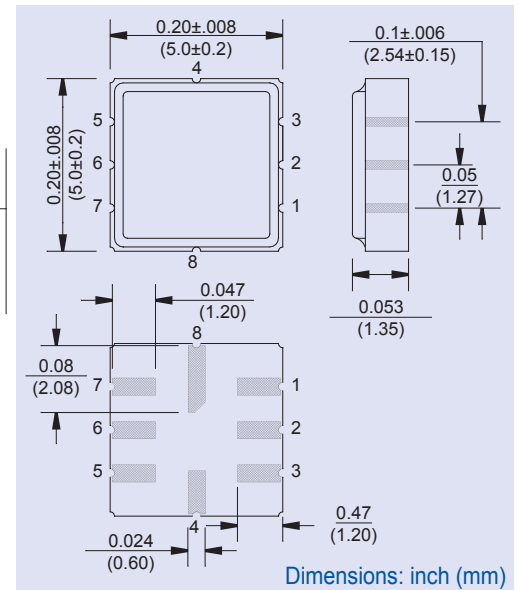
Data measured with: Source Impedance: Z_s=50Ω, Load Impedance: Z_L=50Ω, TA=25°C
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

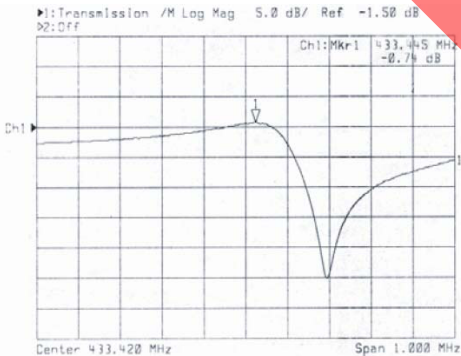
- 433.42R (433.42 Frequency in MHz)
- A ZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004; X: Traceability code)

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

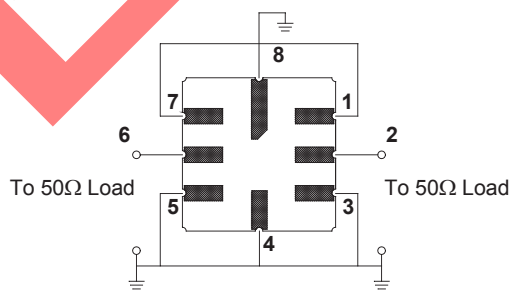
OUTLINE DRAWING:



FREQUENCY RESPONSE:



TEST CIRCUIT:



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