



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 | | |

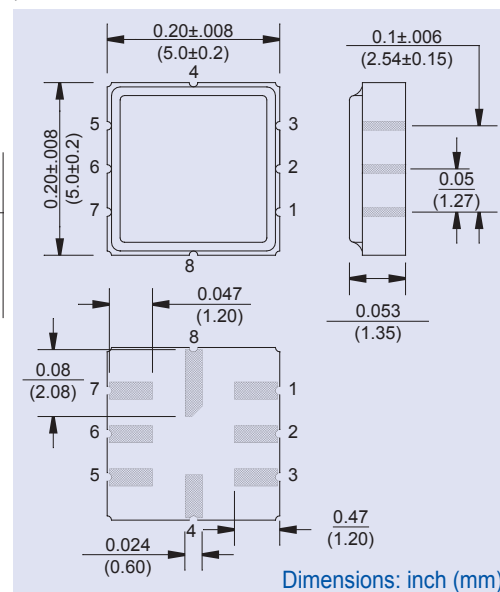
Data measured with: Source Impedance: Z_s=50Ω, Load Impedance: Z_L=50Ω, T_A=25°C
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

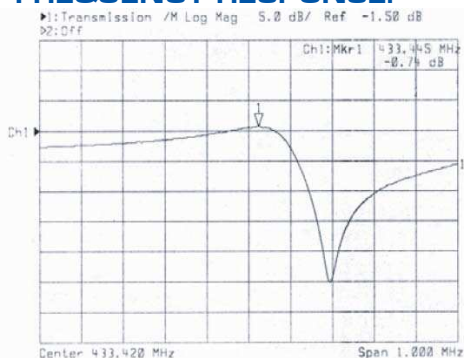
- 433.42R (433.42 Frequency in MHz)
- A ZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004
X: Traceability code)

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

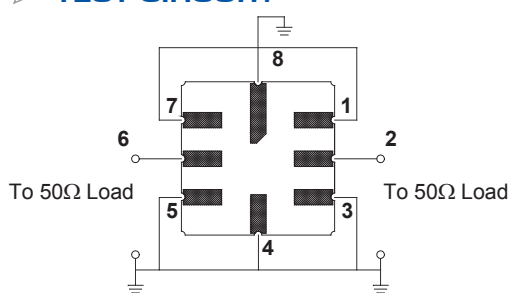
OUTLINE DRAWING:



FREQUENCY RESPONSE:



TEST CIRCUIT:



ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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