

SMD ONE PORT 433.92 MHz SAW RESONATOR

ASR433S2



RoHS
Compliant



5 x 3.5 x 1.5mm

STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	433.845	433.920	433.995
Tolerance from Fo		KHz		±75	
Insertion Loss		dB	-	1.5	2.0
Quality Factor	Unloaded	-		11,000	
	50Ω loaded			2,000	
Temperature Stability	Turnover Temperature	°C		39	
	Turnover Frequency	KHz		Fc	
	Freq. Temp. Coefficient	ppm/°C ²		0.032	
Frequency Aging		ppm/year		±10	
DC Insulation Resistance		MΩ	1.0		
RF Equivalent RLC Model	Motional Resistance R ₁	Ω		18	26
	Motional Inductance L ₁	μH		86	
	Motional Capacitance C ₁	fF		1.56	
	Shunt Capacitance C ₀	pF		2.0	
Operating temp.		°C	-45°C to +85°C		
Storage temp.		°C	-45°C to +85°C		
Max. Rating	DC voltage	V	±10		
RF Power Dissipation		dBm	0		

Data measured with: Source Impedance: Z_s=50Ω, Load Impedance: Z_L=50Ω, T_A=25°C

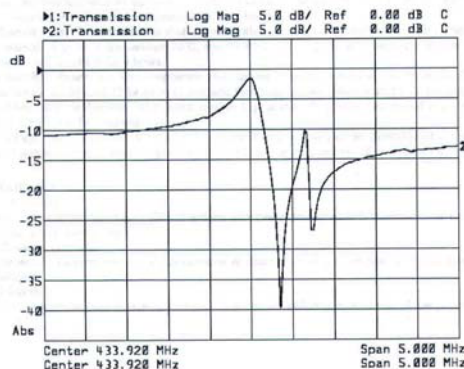
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

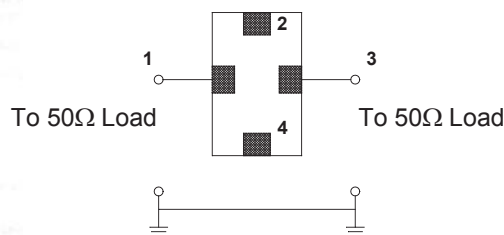
- 433.92 (433.92 Frequency in MHz)
- ZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004
X: Traceability code)

PIN NO.	CONNECTIONS
1	Input
2	GND
3	Output
4	GND

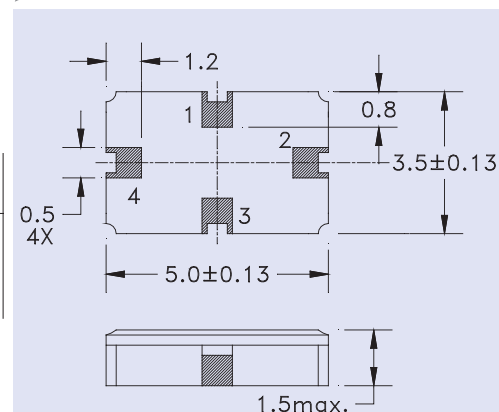
FREQUENCY RESPONSE:



TEST CIRCUIT:



OUTLINE DRAWING:



Dimensions: inch (mm)
Terminals: Ni, Gold plated

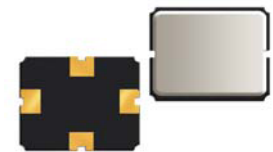
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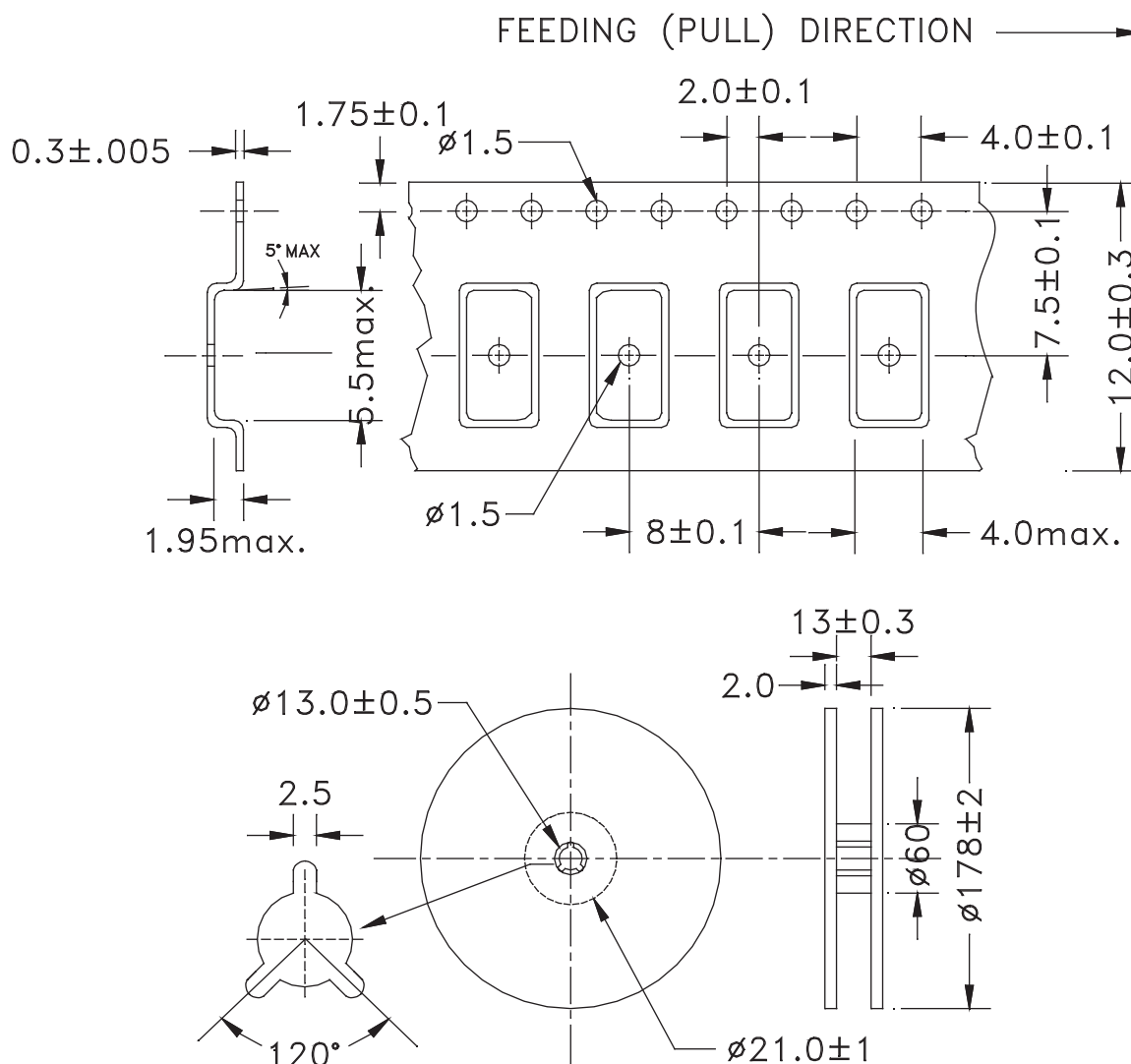
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➤ PACKING:

- Tape specifications
- Tensile strength of carrier tape: 4.4N/mm width
- Top cover tape adhesion
- Pull off angle: 0 ~ 15°
- Speed: 300mm/min.
- Force: 20 ~ 70g.



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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