

SMD ONE PORT 433.92 MHz SAW RESONATOR

ASR433.92S53



RoHS
Compliant



5 x 3.5 x 1.5mm

STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency F_0		MHz	433.845	433.920	433.995
Tolerance from F_0		KHz		± 75	
Insertion Loss		dB	-	1.2	2.0
Quality Factor	Unloaded	-		11,000	
	50 Ω loaded			2,000	
Temperature Stability	Turnover Temperature	$^{\circ}\text{C}$		39	
	Turnover Frequency	KHz		$F_c + 2.7\text{kHz}$	
	Freq. Temp. Coefficient	ppm/ $^{\circ}\text{C}^2$		0.032	
Frequency Aging		ppm/year		± 10	
DC Insulation Resistance		M Ω	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	1.7	2.0	2.3
Operating temp.		$^{\circ}\text{C}$	-45°C to $+85^{\circ}\text{C}$		
Storage temp.		$^{\circ}\text{C}$	-45°C to $+85^{\circ}\text{C}$		
Max. Rating	DC voltage	V	± 10		
RF Power Dissipation		dBm	0		

Data measured with: Source Impedance: $Z_s=50\Omega$, Load Impedance: $Z_L=50\Omega$, $T_A=25^{\circ}\text{C}$

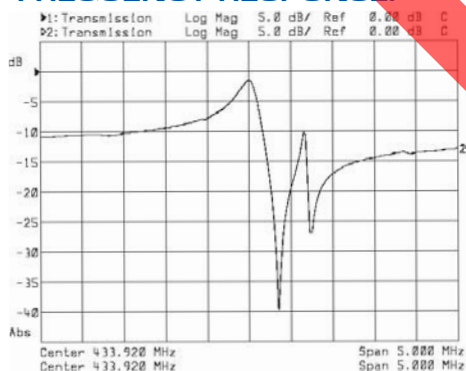
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

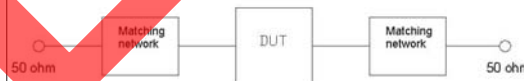
- 433.92 (433.92 Frequency in MHz)
- ZYX (ZY: Date code Z for month from A to L; Y for year, i.e. 4 for 2004
X: Traceability code)

PIN NO.	CONNECTIONS
1	Input
3	Output
2,4	Case Ground

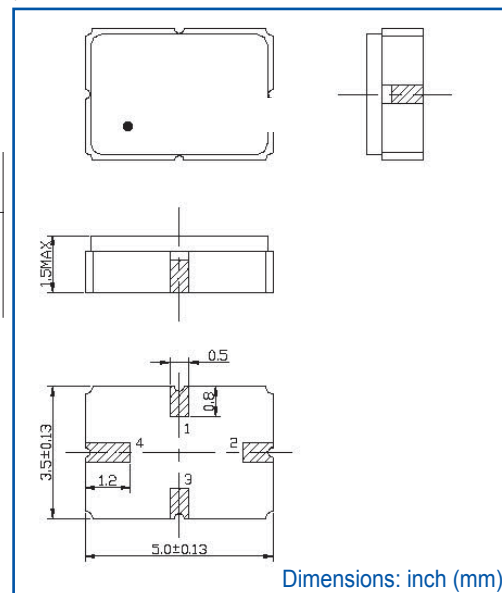
FREQUENCY RESPONSE:



TEST CIRCUIT:



OUTLINE DRAWING:



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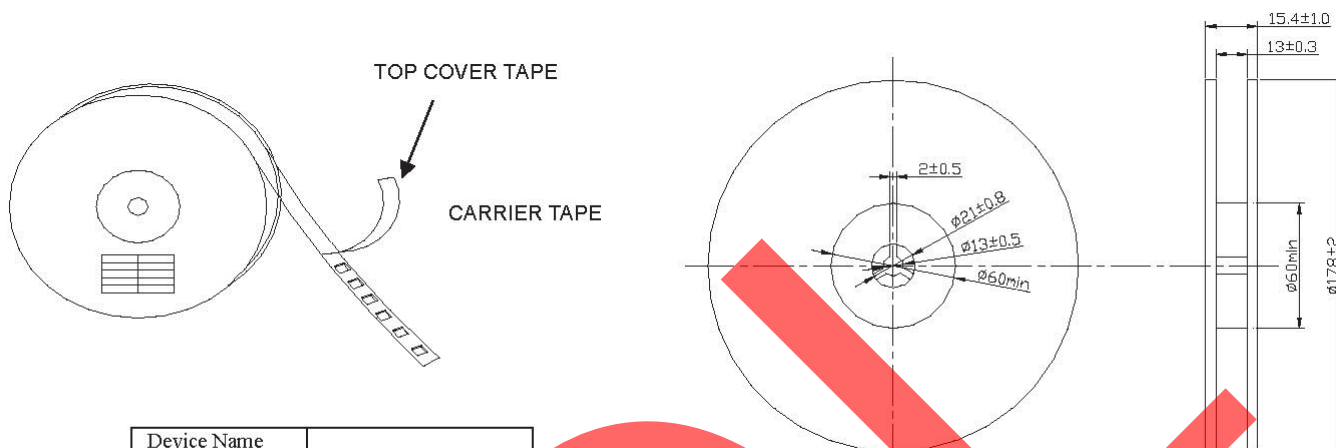
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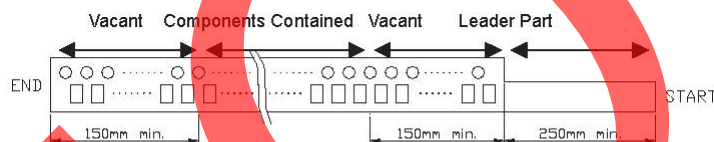
5 x 3.5 x 1.5mm

PACKING:

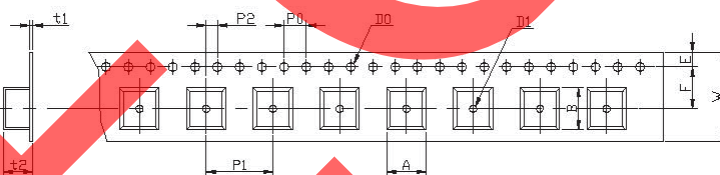
- (1) Carrier Tape
- (2) Reel
- (3) The product shall be packed properly not to be damaged during transportation and storage.
- (4) Reeling Quantity: 1,000 pcs/reel



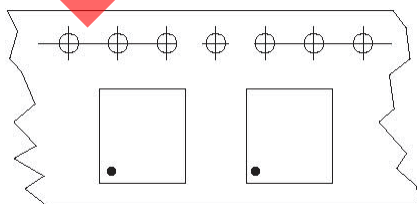
Device Name	
Type	
Quantity	
Lot No.	



TAPE RUNNING DIRECTION



W	F	E	P0	P1	P2	D0	D1	t1	t2	A	B
12.0	5.5	1.75	4.0	8.0	2.0	□1.5	□1.5	0.31	1.95	3.8	5.3
±0.3	±0.1	±0.1	±0.2	±0.1	±0.2	±0.1	±0.25	max.	max.	max.	max.



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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