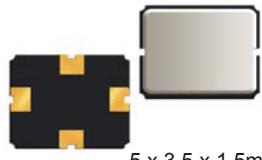


SMD ONE PORT 433.92 MHz SAW RESONATOR

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	°C		39	
	Turnover Frequency	KHz		$F_c + 2.7\text{kHz}$	
	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	1.7	2.0	2.3
Operating temp.		°C	-45°C to $+85^\circ\text{C}$		
Storage temp.		°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: $Z_L=50\Omega$, TA=25°C

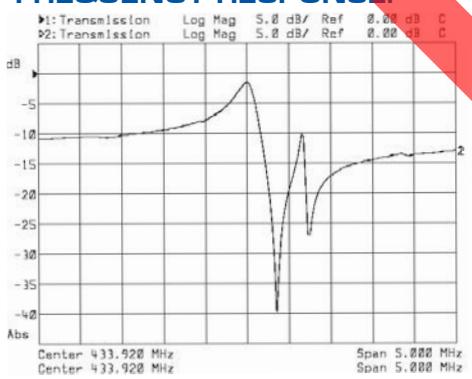
Electrostatic Sensitive Device. Handle with precaution.

➤ 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
3	Output
2,4	Case Ground

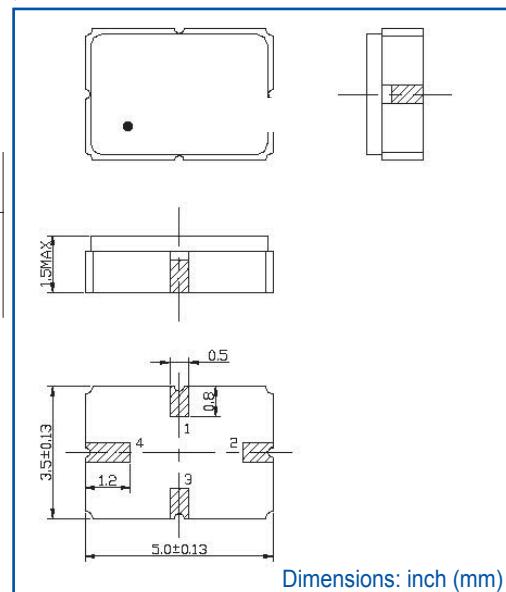
► FREQUENCY RESPONSE:



► TEST CIRCUIT:



► OUTLINE DRAWING:



Dimensions: inch (mm)

SMD ONE PORT 433.92 MHz SAW RESONATOR

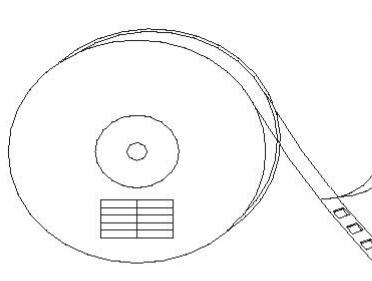
ASR433.92S53



5 x 3.5 x 1.5mm

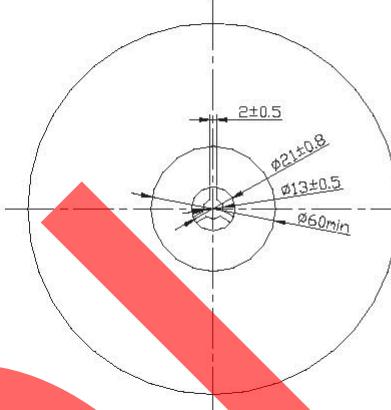
► PACKING:

- (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

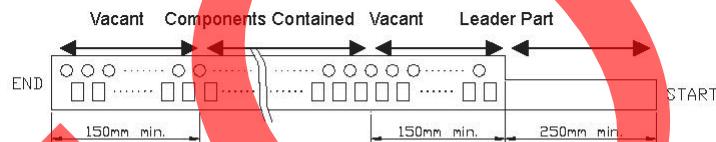
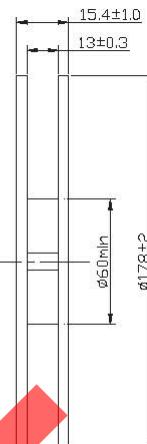


TOP COVER TAPE

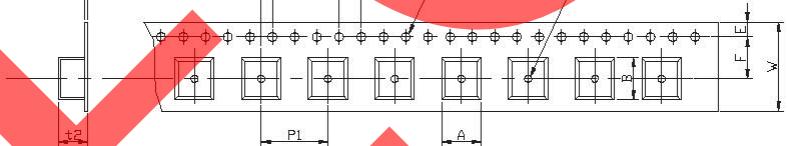
CARRIER TAPE



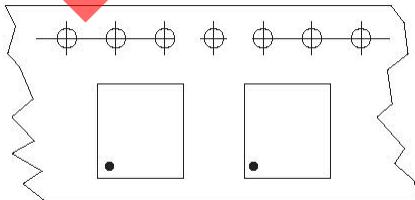
Device Name	
Type	
Quantity	
Lot No.	



TAPE RUNNING DIRECTION

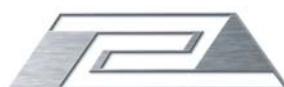


W	F	E	P0	P1	P2	D0	D1	t1	t2	A	B
12.0 ±0.3	5.5 ±0.1	1.75 ±0.1	4.0 ±0.2	8.0 ±0.1	2.0 ±0.2	1.5 ±0.1	1.5 ±0.25	0.31 max.	1.95 max.	3.8 max.	5.3 max.



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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ABRACON
CORPORATION

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com