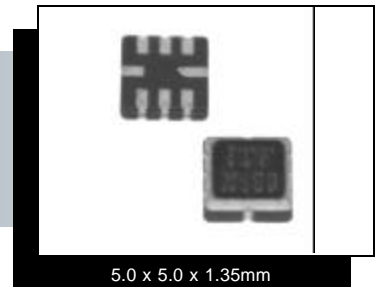


CERAMIC SURFACE-MOUNT, ONE-PORT SAW RESONATORS ASR433.42E



5.0 x 5.0 x 1.35mm

FEATURES:

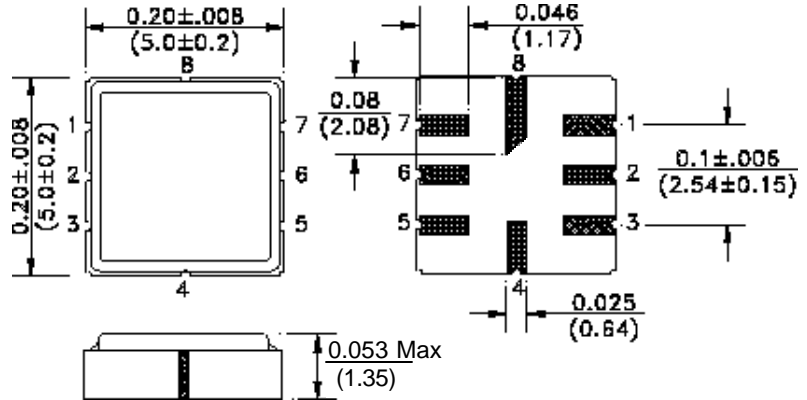
- One-port SAW resonator 433.42MHz.
- Small ceramic surface-mount.
- SMD makes reflow soldering possible.
- Gold plated terminals.

COMMON APPLICATIONS:

- Quartz frequency stabilization of fixed-frequency transmitters at 433.42 MHz.
- Wireless car alarm, Garage door opener. (RKE)
- Mobile communications systems

ABSOLUTE MAXIMUM RATINGS:

DC voltage	±30Vdc
Operating temperature	-40°C to +85°C
Maximum power dissipation	10dBm



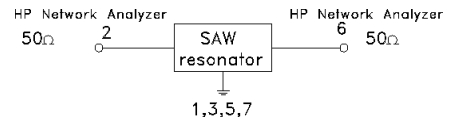
Dimensions: Inches (mm)

STANDARD SPECIFICATIONS

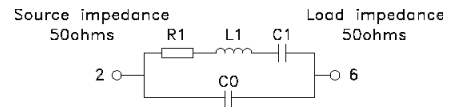
CHARACTERISTICS	UNIT	min.	typ.	max.	
Center frequency	Fr	MHz	433.345	433.420	433.495
Insertion loss	IL	dB	-	1.5	2.5
Shunt capacitance	Co	pF	-	2.3	-
Motional resistance	R1	Ω	-	19	33
Motional inductance	L1	uH	-	101.841	-
Motional capacitance	C1	fF	-	1.3254	-
Turn-over temperature	To	°C	25	40	55
Temperature coefficient	Tc	ppm/C ²	-	0.037	-
Aging per year	[A]	ppm/yr	-	-	10
DC insulation resistance	MΩ		1.0	-	-

Pin No.	Function
2	Input/Output
6	Output/Input
4, 8 *	Case GND
1, 3, 5, 7	N/C

Test circuit:



Equivalent circuit:



Marking:

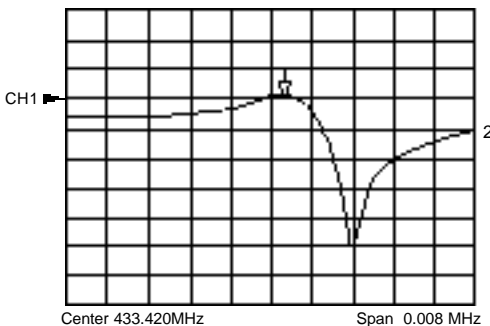
ASR
433.42E

Packaging option: -T for tape and reel, see appendix H. Reflow profile, see appendix E.

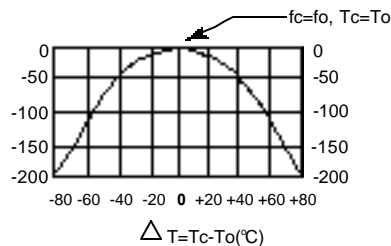
Reliability specifications, see SAW application notes.

Typical Frequency Response

1:Transmission /M Log Mag 5.8 dB/ Ref -1.52 dB
2: Off



Temperature Characteristics



NOTE: All specifications and markings subject to change without notice

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