

CERAMIC SURFACE-MOUNT

SAW FILTER

AFS433E-01

## FEATURES:

- SAW Filter 433.92MHz.
- Low Loss, Compact.
- SMD makes reflow soldering possible.
- Gold plated terminals.

## COMMON APPLICATIONS:

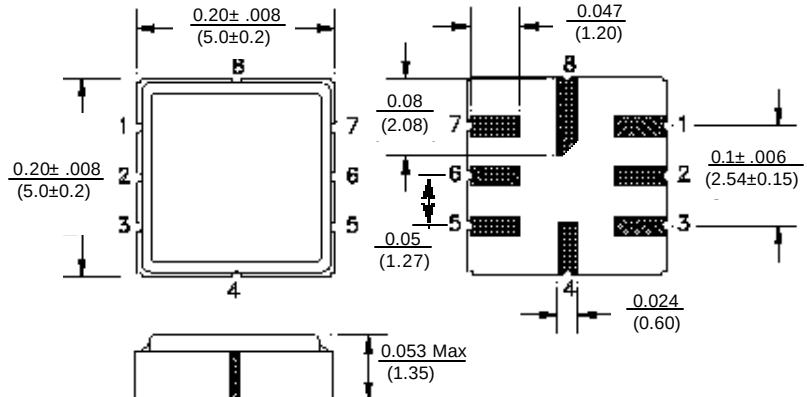
- Wireless car alarm, Garage door opener. (RKE)
- Mobile communications systems

## ABSOLUTE MAXIMUM RATINGS:

|                           |                |
|---------------------------|----------------|
| DC voltage                | ±12 Vdc        |
| Operating temperature     | -35°C to +85°C |
| Maximum power dissipation | 10dBm          |

## STANDARD SPECIFICATIONS

| CHARACTERISTICS               | UNIT                    | min. | typ.    | max. |
|-------------------------------|-------------------------|------|---------|------|
| Center frequency $F_c$        | MHz                     | -    | 433.920 | -    |
| Insertion loss IL             | dB                      | -    | 3.0     | 5.5  |
| 3dB Passband BW3              | kHz                     | -    | ±300    | -    |
| 3dB Reject band BW3           | kHz                     | -    | -       | ±500 |
| Stopband attenuation          | at $F_c-21.4\text{MHz}$ | dB   | 40      | 50   |
|                               | at $F_c-10.7\text{MHz}$ | dB   | 15      | 30   |
|                               | Ultimate                | -    | 80      | -    |
| Turn-over temperature $T_o$   | °C                      | 24   | 39      | 54   |
| Temperature coefficient $T_c$ | ppm/°C                  | -    | 0.032   | -    |
| Aging absolute first year [A] | ppm                     | -    | -       | 10   |

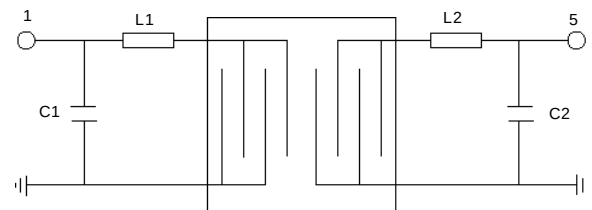


Dimensions: Inches (mm)

| Pin No. | Function    |
|---------|-------------|
| 1       | Input       |
| 2       | Input GND   |
| 5       | Output      |
| 6       | Output GND  |
| 3, 7    | To be GNDed |
| 4, 8    | Case GND    |

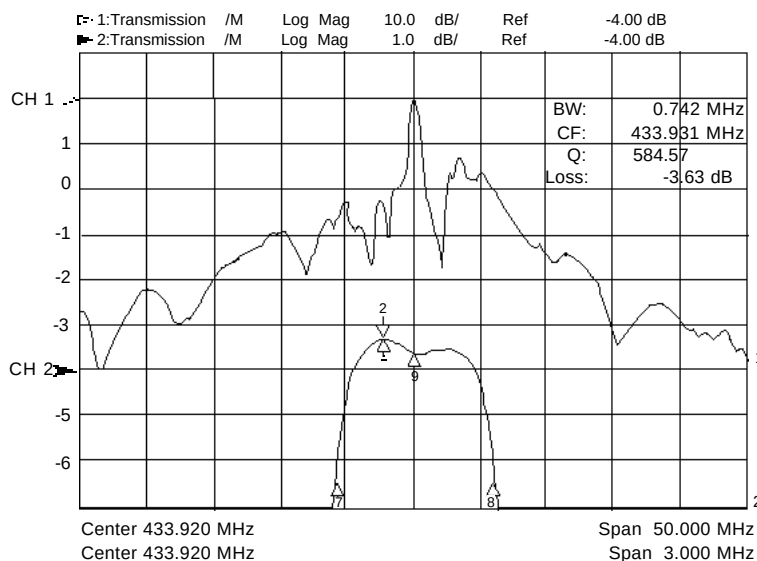
## Matching circuit to 50 W:

$C1=C2=13\text{pF}$ ,  $L1=L2=43\text{nH}$



## Marking:

AFS  
433E



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NOTE: All specifications and markings subject to change without notice

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