

5.0 x 5.0 x 1.35mm

# CERAMIC SURFACE-MOUNT SAW FILTER AFS868.35E

## FEATURES:

- SAW Filter 868.35MHz.
- Low Loss, Compact.
- SMD makes reflow soldering possible.
- Gold plated terminals.

## COMMON APPLICATIONS:

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

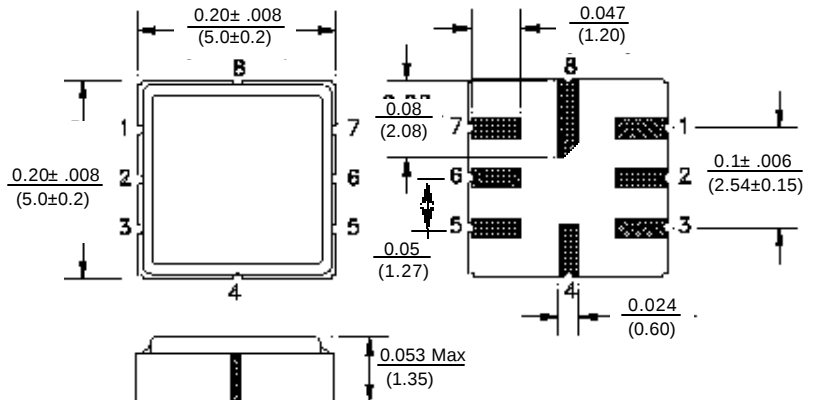
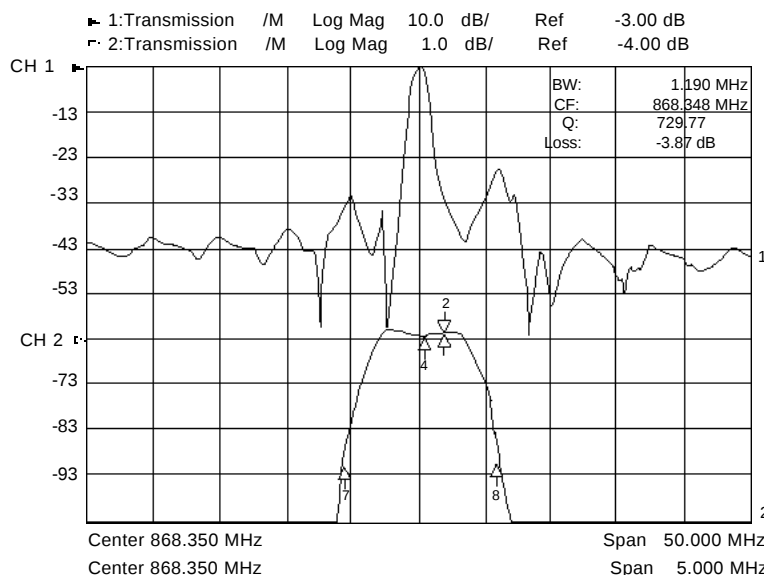
## ABSOLUTE MAXIMUM RATINGS:

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

## STANDARD SPECIFICATIONS

| CHARACTERISTICS               |               | UNIT   | min. | typ.   | max. |
|-------------------------------|---------------|--------|------|--------|------|
| Center frequency Fc           |               | MHz    | -    | 868.35 | -    |
| Insertion loss IL             |               | dB     | -    | 4.0    | 5.5  |
| 3dB Pass band BW3             |               | kHz    | -    | 1,200  | -    |
| Stopband attenuation          | at Fc-21.4MHz | dB     | 30   | 40     | -    |
|                               | at Fc-10.7MHz | dB     | 15   | 30     | -    |
|                               | Ultimate      |        | -    | 60     | -    |
| Turn-over temperature To      |               | °C     | 25   | 40     | 55   |
| Temperature coefficient Tc    |               | ppm/C² | -    | 0.032  | -    |
| Aging absolute first year [A] |               | ppm    | -    | -      | 10   |

Packaging option: -T for tape and reel, see appendix H.  
Reflow profile, see appendix E. Reliability specifications,  
Environmental and mechanical specifications, see page 91 in the Abracon Catalog

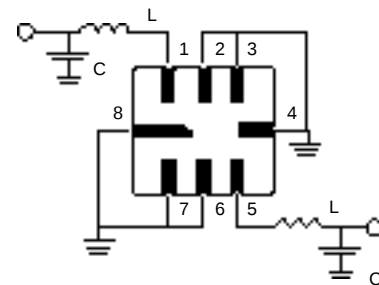


Dimensions: Inches (mm)

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

## Maching circuit to 50 W:

C=4-8 pF, L=2 turns of 0.5mm insulated copper, 3.0 ID (nH)



## Marking:

AFS  
868.35E



NOTE: All specifications and markings subject to change without notice

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