# 869MHz SMD SAW FILTER

AFS869.0W01-TS4

3.0 x 3.0 x .85mm

Pb RoHS Compliant

## FEATURES:

- Low loss
- 3.0 x 3.0 x 1.5mm package
- Wide band

## APPLICATIONS:

- RF filter for telecommunications
- Wireless audio

## STANDARD SPECIFICATIONS:

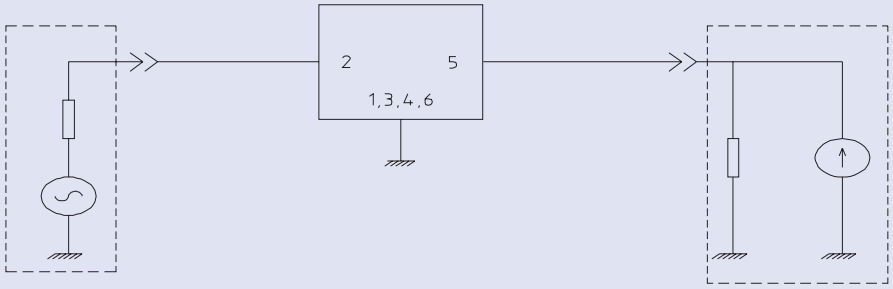
### MAXIMUM RATINGS

| Item | Value |
|---|---|
| Operation Temperature Range | -30°C to +80°C |
| Storage Temperature Range | -40℃ to +85℃ |
| DC Permissive Voltage | 10V DC max. |
| Maximum Input Power | 0 dBm |

### ELECTRICAL CHARACTERISTICS

| Item | Frequency (MHz) | Specification |
|---|---|---|
| Center Frequency (fo) | 869.0 | |
| 3dB Band Width | 8 | |
| Insertion Loss | 868.0 ~870.0 | 4.5 dB max. |
| Ripple | 868.05 ~870.0 | 1.5 dB max |
| Relative Attenuation | 825.0 ~ 828.0<br>846.0 ~ 849.0<br>889.0 ~ 892.0<br>910.0 ~ 913.0 | 40 dB min.<br>35 dB min.<br>35 dB min.<br>40 dB min. |
| Input Impedance | | 50Ω |
| Output Impedance | | 50Ω |

## TEST CIRCUIT






30332 Esperanza, Rancho Santa Margarita, California 92688
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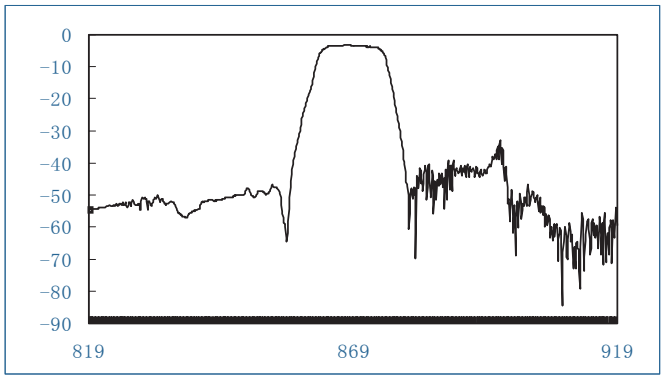
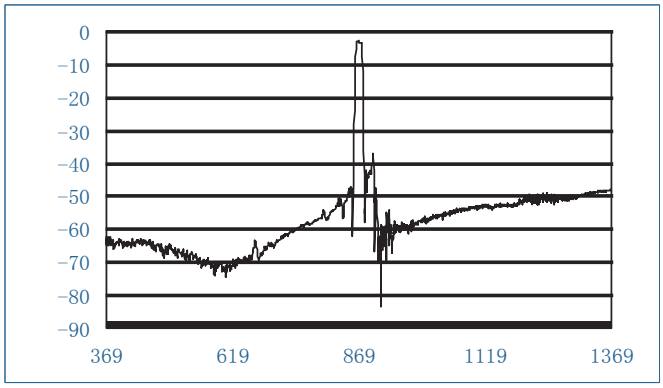
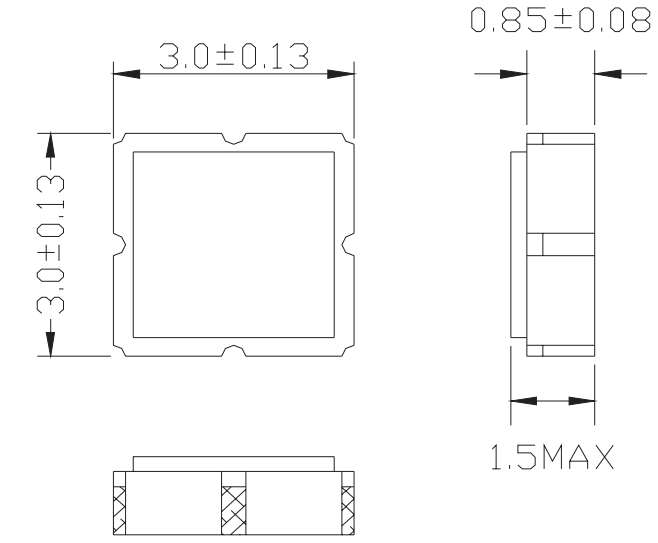
## FREQUENCY CHARACTERISTICS

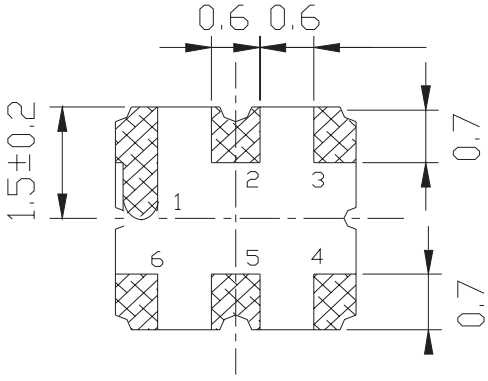



## OUTLINE DIMENTSIONS:




Dimension : mm




| Pin No. | Function |
|---|---|
| Pin 2 | Input |
| Pin 5 | Output |
| Pin 1,3,4,6 | Ground |



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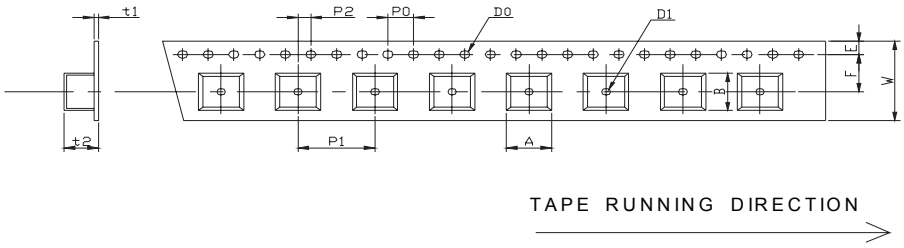
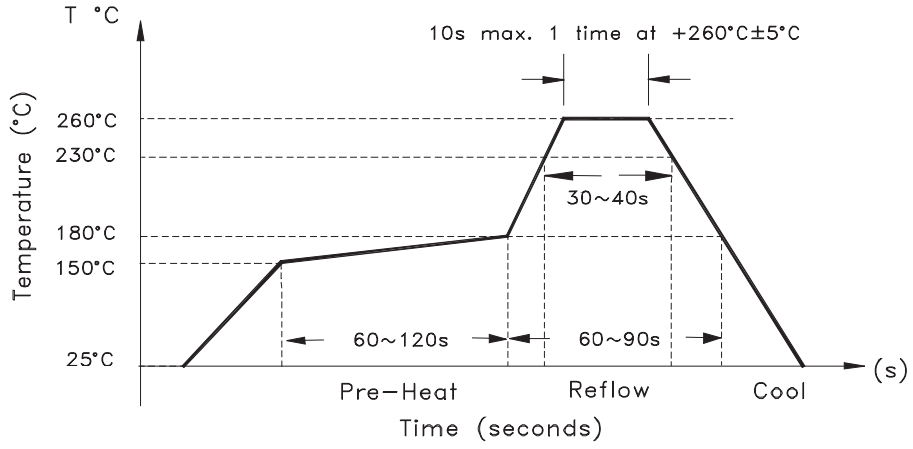
## TAPE AND REEL:




| 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 | 4.0 ±0.1 | 2.0 ±0.2 | Φ1.5 ±0.1 | Φ1.5 ±0.25 | 0.31 max. | 1.70 max. | 3.3 max. | 3.3 max. |

Dimension : mm

## REFLOW PROFILE:




**NOTE:** Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.



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