

# SMD 360.0MHz SAW FILTER

AFS360.0N01-SE



RoHS  
Compliant



5.0 x 5.0 x 1.5mm

## FEATURES:

- Low loss 6dB max
- 5.0 x 5.0 x 1.5mm seam sealed package
- Suitable for RoHS reflow profile

## APPLICATIONS:

- Telecommunication

## STANDARD SPECIFICATIONS:

### ABSOLUTE MAXIMUM RATING

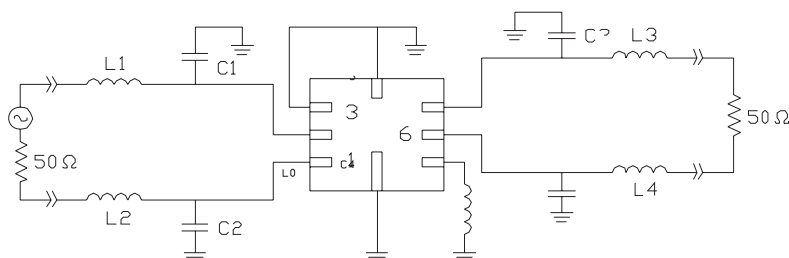
|                             |                |
|-----------------------------|----------------|
| DC Permissive Voltage       | 10V DC max.    |
| Operating Temperature Range | -30°C to +80°C |
| Storage Temperature Range   | -45°C to +85°C |
| Source Power                | 0dBm           |

### ELECTRICAL CHARACTERISTICS

| Item                                            | Units              | Minimum | Typical  | Maximum |
|-------------------------------------------------|--------------------|---------|----------|---------|
| Center Frequency ( $f_o$ )                      | MHz                | --      | 360.0    | --      |
| Pass-band Width                                 | KHz                | --      | 315.0    | --      |
| Minimum Insertion Loss                          | dB                 | --      | 3.8      | 5.0     |
| Ripple Deviation (Pass-band)                    |                    |         |          |         |
| $f_o \pm 67.7\text{KHz}$                        | dB                 | --      | 0.6      | 2.0     |
| $f_o \pm 80.0\text{KHz}$                        | dB                 | --      | 0.9      | 3.0     |
| Group Delay Ripple                              |                    |         |          |         |
| $f_o \pm 67.7\text{KHz}$                        | $\mu\text{sec}$    | --      | 0.5      | 1.8     |
| Stop Band Suppression                           |                    |         |          |         |
| $f_o - 30.0\text{MHz} \sim f_o - 5.0\text{MHz}$ | dB                 | 55.0    | 62.0     | --      |
| $f_o - 5.0\text{MHz} \sim f_o - 1.6\text{MHz}$  | dB                 | 52.0    | 54.0     | --      |
| $f_o - 1.6\text{MHz} \sim f_o - 800\text{KHz}$  | dB                 | 42.0    | 48.0     | --      |
| $f_o - 800\text{KHz} \sim f_o - 600\text{KHz}$  | dB                 | 38.0    | 48.0     | --      |
| $f_o - 600\text{KHz} \sim f_o - 400\text{KHz}$  | dB                 | 24.0    | 32.0     | --      |
| $f_o + 400\text{KHz} \sim f_o + 600\text{KHz}$  | dB                 | 24.0    | 32.0     | --      |
| $f_o + 600\text{KHz} \sim f_o + 800\text{KHz}$  | dB                 | 38.0    | 48.0     | --      |
| $f_o + 800\text{KHz} \sim f_o + 1.6\text{MHz}$  | dB                 | 42.0    | 48.0     | --      |
| $f_o + 1.6\text{MHz} \sim f_o + 5.0\text{MHz}$  | dB                 | *52.0   | 54.0     | --      |
| $f_o + 5.0\text{MHz} \sim f_o + 30.0\text{MHz}$ | dB                 | 55.0    | 62.0     | --      |
| Impedance within the pass band                  |                    |         |          |         |
| Input: $Z_{IN} = R_{IN}/C_{IN}$                 | $\Omega/\text{pF}$ | --      | 340//1.9 | --      |
| Output: $Z_{OUT} = R_{OUT}/C_{OUT}$             | $\Omega/\text{pF}$ | --      | 340//1.9 | --      |
| Temperature coefficient of frequency            | $\text{Ppm/K}^2$   | --      | -0.036   | --      |

\*This value is not including the spurious response in the frequency range from 362.5MHz to 364.0MHz

## TEST CIRCUIT:



$$L1 = L2 = L3 = L4 = 18\text{nH}$$

$$L0 = 68\text{nH}$$

$$C1 = C2 = C3 = C4 = 1.2\text{pF}$$



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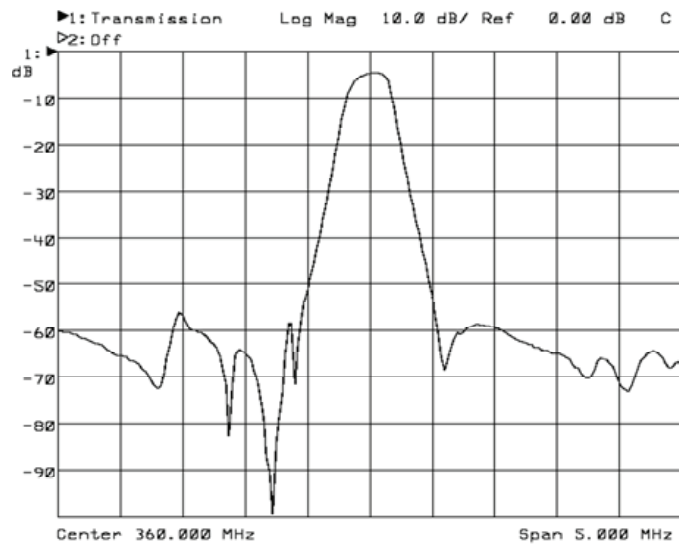


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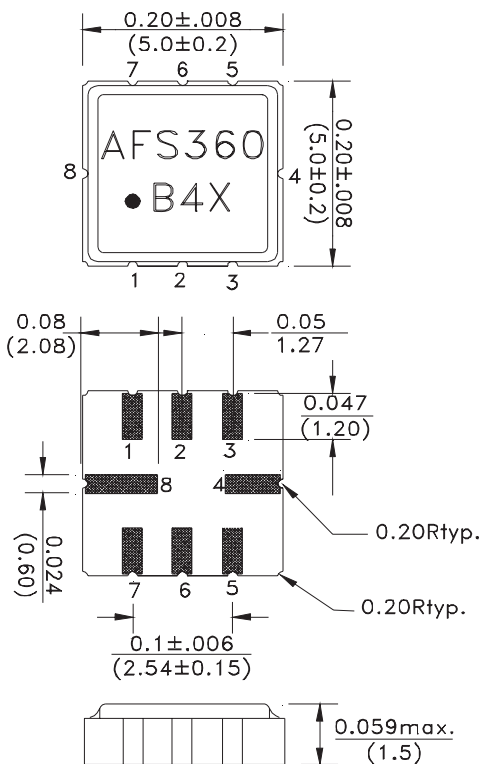


5.0 x 5.0 x 1.5mm

## FREQUENCY CHARACTERISTICS:



## OUTLINE DIMENSIONS:



B  
Month code

4  
Last figure of year

| Month      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------------|---|---|---|---|---|---|---|---|---|----|----|----|
| Month code | A | B | C | D | E | F | G | H | I | J  | K  | L  |

e.g.: "B4" means February of 2004

X = Traceability Code

| Pin No. | Function      |
|---------|---------------|
| 1       | Input Ground  |
| 2       | Input         |
| 3       | Ground        |
| 4       | Case Ground   |
| 5       | Output        |
| 6       | Output Ground |
| 7       | Ground        |
| 8       | Case Ground   |

Unit: inch (mm)



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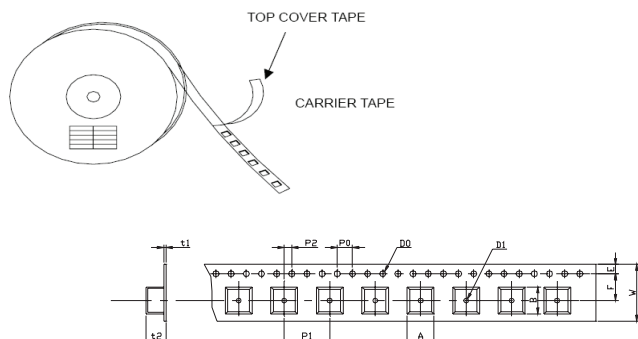
**RoHS**  
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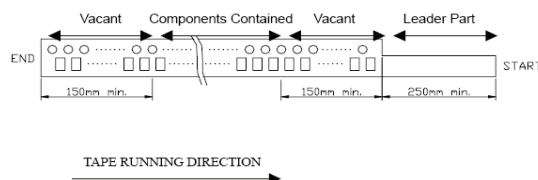
5.0 x 5.0 x 1.5mm

## TAPE & REEL:

### Taping Structure



### Leader part and vacant position specification

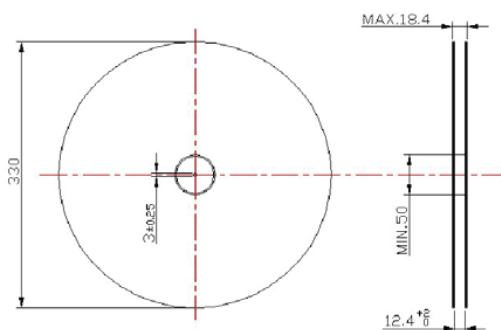


| W    | F    | E    | P0   | P1   | P2   | D0    | D1    | t1   | t2   | A    | B    |
|------|------|------|------|------|------|-------|-------|------|------|------|------|
| 12.0 | 5.5  | 1.75 | 4.0  | 8.0  | 2.0  | Φ 1.5 | Φ 1.5 | 0.31 | 1.95 | 5.5  | 5.5  |
| ±0.3 | ±0.1 | ±0.1 | ±0.2 | ±0.1 |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

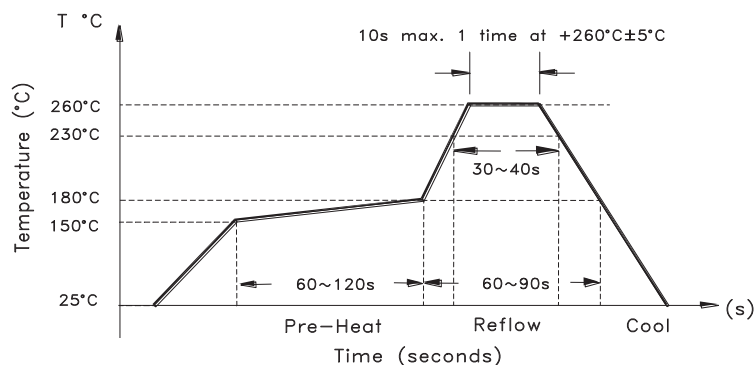
### TAPE SPECIFICATIONS

- Tensile Strength of carrier tape: 4.4N/mm width.
- Top Cover Tape Adhesion
  - pull off angle: 0~15°
  - speed: 300mm/min.
  - force 20~70g

|             |  |
|-------------|--|
| Device Name |  |
| Type        |  |
| Quantity    |  |
| Lot No.     |  |



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