

SMD 868.0 MHz SAW FILTER

AFS868.0W01-TS3



3.8 X 3.8 X 1.5mm



RoHS
Compliant

FEATURES:

- SAW Filter 868 MHz
- Low Loss, Compact.
- SMD makes reflow soldering possible.
- Gold plated reflow soldering possible.

APPLICATIONS:

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

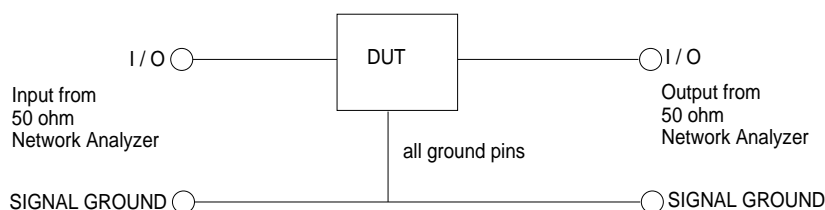
MAXIMUM RATING

| | |
|------------------------|--------------------|
| Operating temperature: | -40° C to + 125° C |
| Storage temperature: | - 40° C to + 85° C |
| DC Permissive Voltage | 10V DC max |
| Maximum Input Power | 0 dBm |

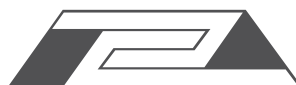
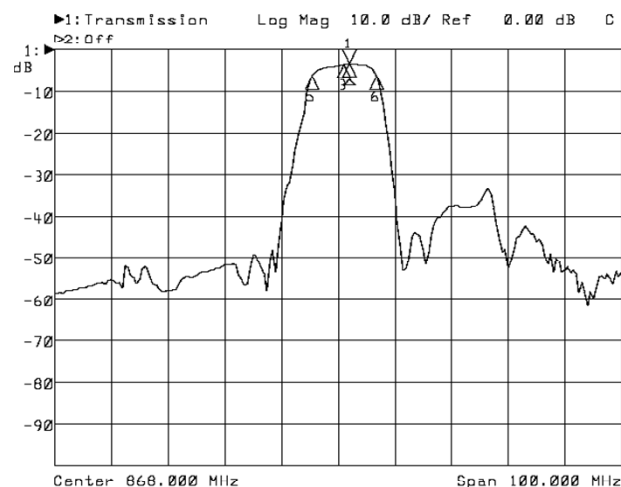
STANDARD SPECIFICATIONS:

| CHARACTERISTICS | UNIT | MIN. | TYP. | MAX. |
|------------------------------|----------|------|-------|------|
| Center Frequency (f_0) | MHz | - | 868.0 | - |
| 3dB Band Width | MHz | - | 8.0 | - |
| IL (866.0MHz ~ 870.0MHz) | dB | - | - | 4.5 |
| Ripple (866.0MHz ~ 870.0MHz) | dB | - | - | 1.5 |
| Relative Attenuation | | | | |
| 824.0 ~ 828.0 MHz | dB | 45 | - | - |
| 845.0 ~ 848.0 MHz | dB | 35 | - | - |
| 888.0 ~ 891.0 MHz | dB | 35 | - | - |
| 908.0 ~ 912.0 MHz | dB | 45 | - | - |
| Input Impedance | Ω | - | 50 | - |
| Output Impedance | Ω | - | 50 | - |

MEASUREMENT CIRCUIT



FREQUENCY CHARACTERISTIC



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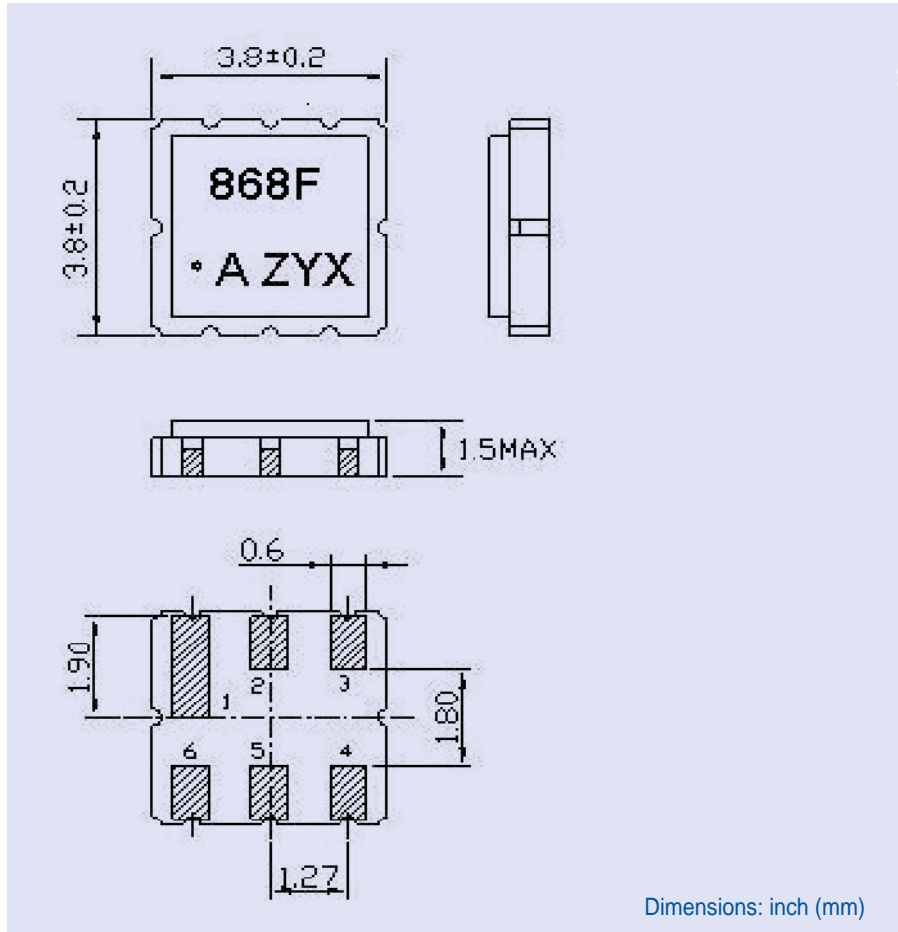


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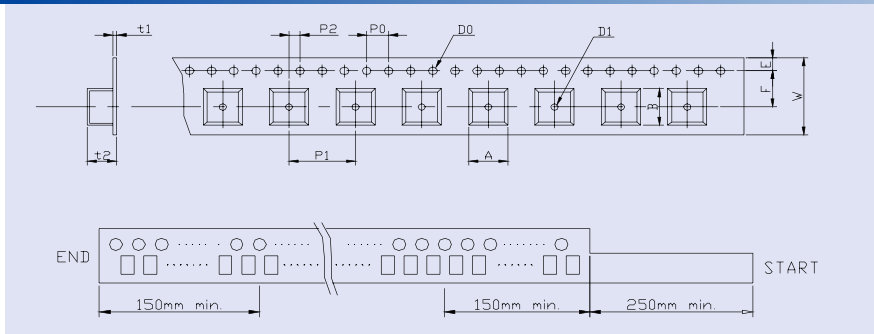
OUTLINE DRAWING:



PIN ASSIGNMENTS:

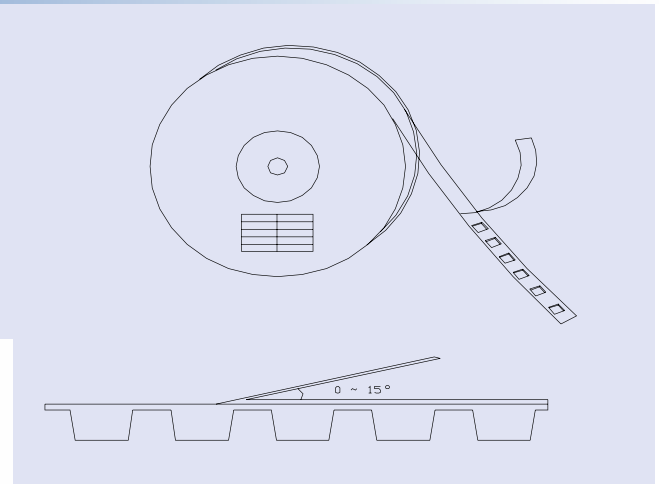
| PIN # | Function |
|-------|----------|
| 1 | Ground |
| 2 | Input |
| 3 | Ground |
| 4 | Ground |
| 5 | Output |
| 6 | Ground |

PACKING:



[Unit: mm]

| W | F | E | P0 | P1 | P2 | D0 | D1 | t1 | t2 | A | B |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 12.0 | 5.5 | 1.75 | 4.0 | 8.0 | 2.0 | Φ1.5 | Φ1.5 | 0.31 | 1.90 | 4.1 | 4.1 |
| ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | min. | max. | max. | max. | max. |



T= tape and reel (1,000pcs/reel)

7.1 REEL DIMENSION

7.1.1 Tensile Strength of carrier tape: 4.4N/mm width.

7.1.2 Top Cover Tape Adhesion

- 1) pull angle: 0~15°
- 2) speed: 300mm/min.
- 3) force 20~70g