

# 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

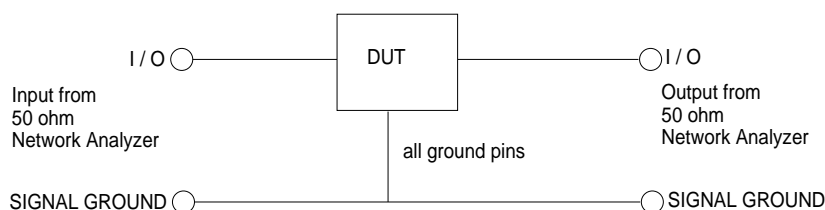
## MAXIMUM RATING

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

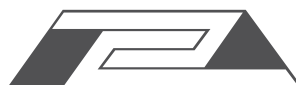
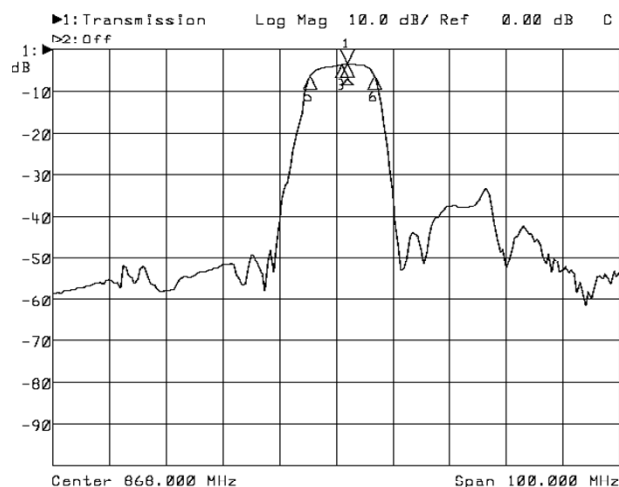
## STANDARD SPECIFICATIONS:

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	$\Omega$	-	50	-
Output Impedance	$\Omega$	-	50	-

## MEASUREMENT CIRCUIT



## FREQUENCY CHARACTERISTIC



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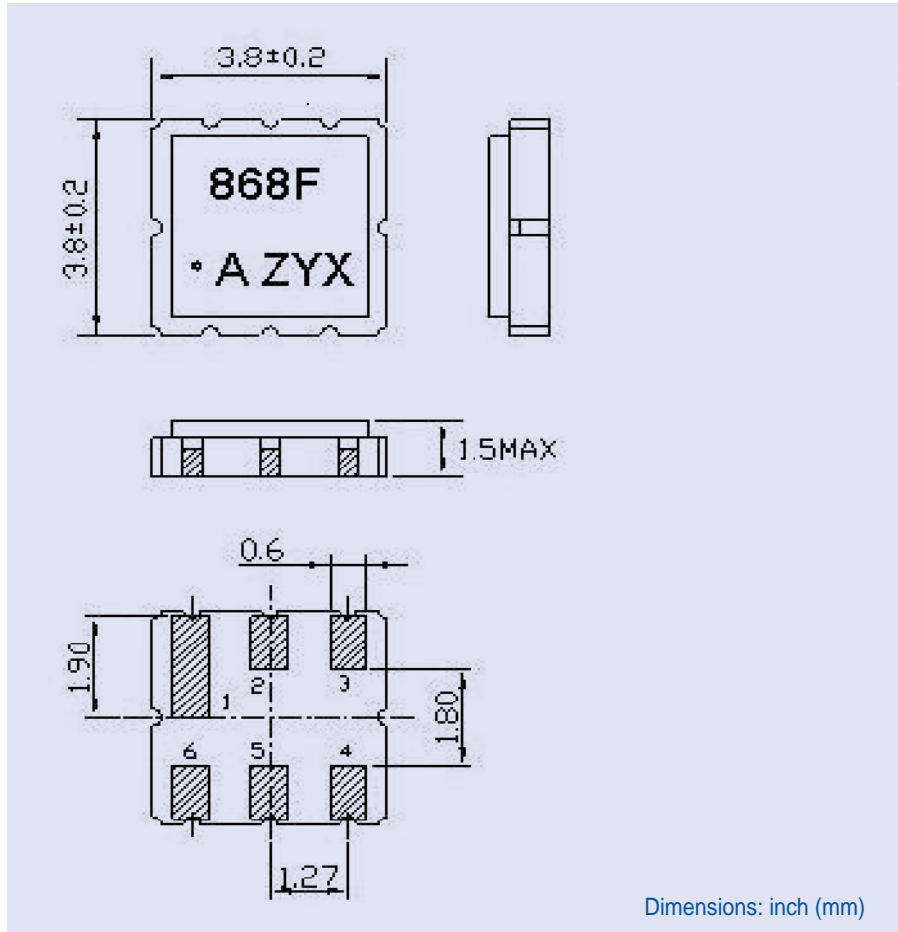


RoHS  
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3.8 X 3.8 X 1.5mm

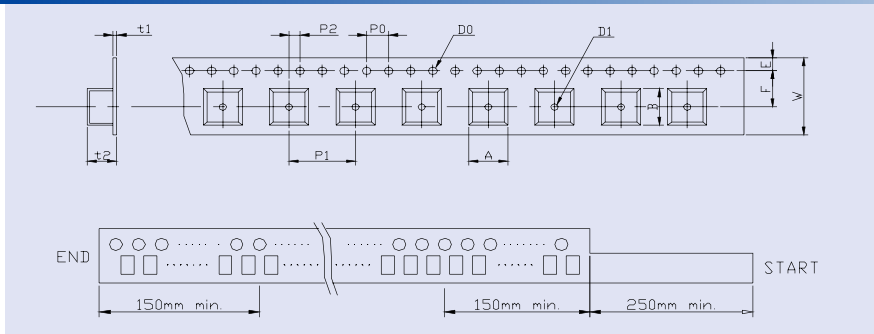
## OUTLINE DRAWING:



## PIN ASSIGNMENTS:

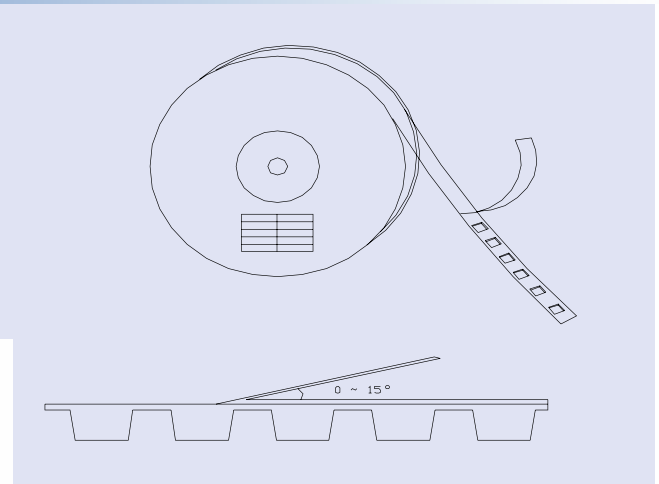
PIN #	Function
1	Ground
2	Input
3	Ground
4	Ground
5	Output
6	Ground

## 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