# AFS315.0W01-TS3 SMD 315.0MHz SAW Filter



3.8 x 3.8 x 1.3 mm

AFS315.0W01-TS3

Moisture Sensitivity Level: N/A (Hermetically sealed package)

RoHS Compliant

## FEATURES:

- Low Insertion Loss 3.0dB typical
- Compact SMD package 3.8 x 3.8 x 1.25mm
- Suitable for RoHS compliant relfow
- Industrial wide temp range -45°C to +85°C

## APPLICATIONS:

- Wireless car alarm, Garage door opener, RKE
- Mobile Communications systems
- Remote controller
- RF reciever

## STANDARD SPECIFICATIONS:

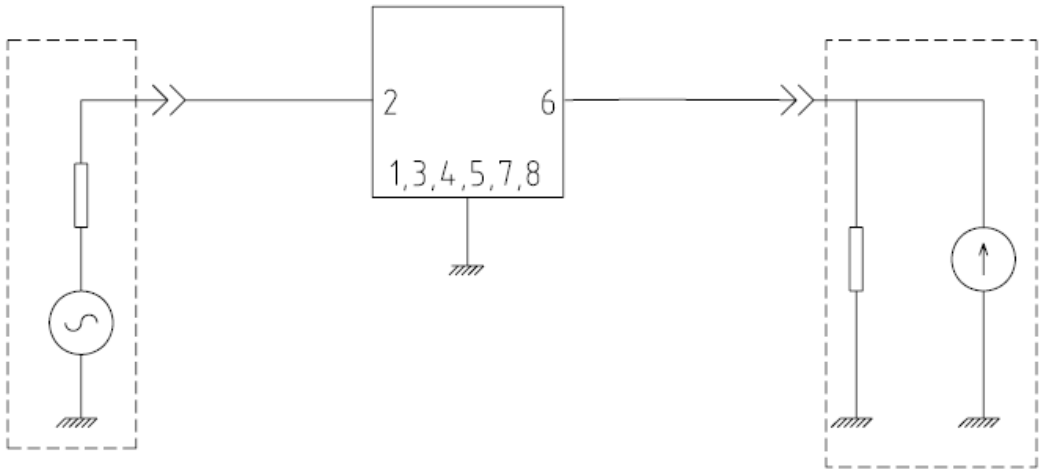
### Maximum Ratings

| Item | Value |
|---|---|
| Operating Temperature Range | -40°C to +85°C |
| Storage Temperature Range | -45°C to +85°C |
| DC Voltage | 0V DC max. |
| Maximum Input Power | 0 dBm |

### Electrical Characteristics

| Parameters | Minimum | Typical | Maximum | Units | Notes |
|---|---|---|---|---|---|
| Center Frequency ($f_0$) | ----- | 315.0 | ----- | MHz | |
| Insertion Attenuation | ----- | 2.0 | 3.0 | dB | 314.0 ~ 316.0MHz |
| Amplitude Ripple | ----- | ----- | 1.5 | dB | 314.0 ~ 316.0MHz |
| Relative Attenuation | 40 | ----- | ----- | dB | $f_0$-25.0 ~ $f_0$-10.0MHz |
| | 50 | ----- | ----- | | $f_0$-100.0 ~ $f_0$-40.8MHz |
| | 50 | ----- | ----- | | $f_0$+40.8 ~ $f_0$+100.0MHz |
| Temperature Coefficient of Frequency | ----- | -30 | ----- | ppm/k | |
| Terminating Impedance | ----- | 50Ω/0pF | ----- | | |

## TEST CIRCUIT







30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

# AFS315.0W01-TS3 SMD 315.0MHz SAW Filter

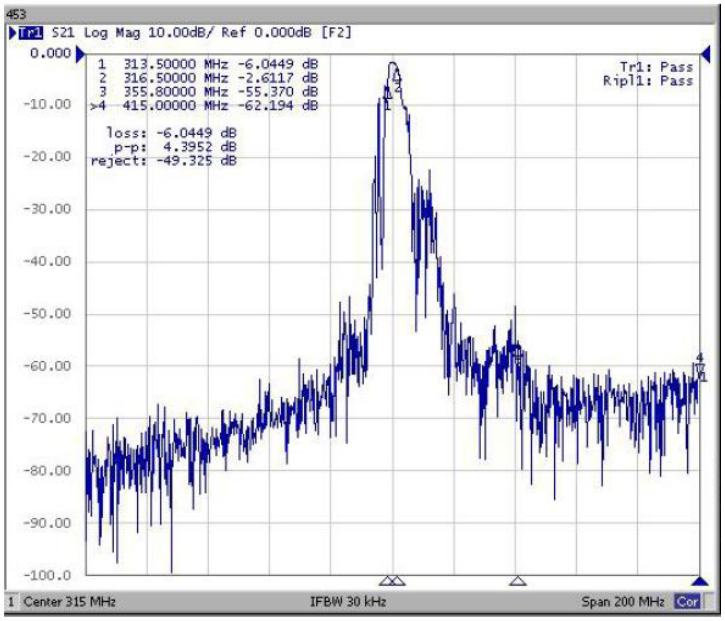
AFS315.0W01-TS3

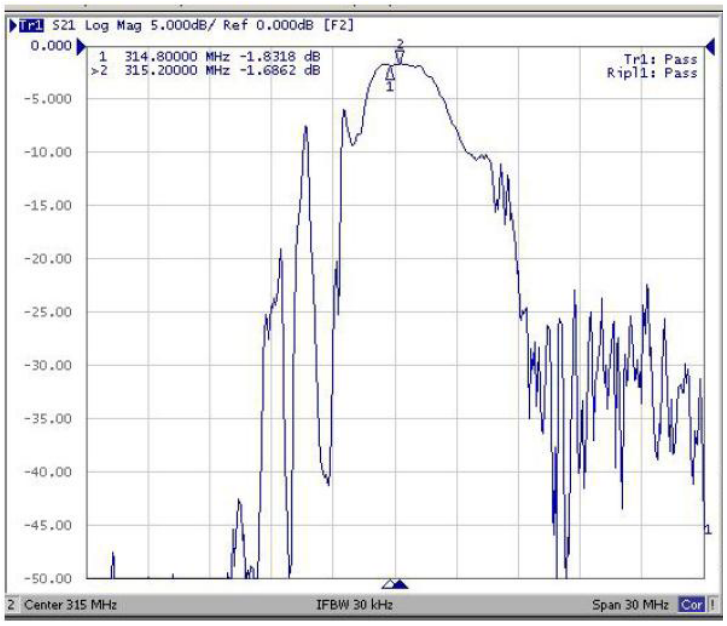
RoHS



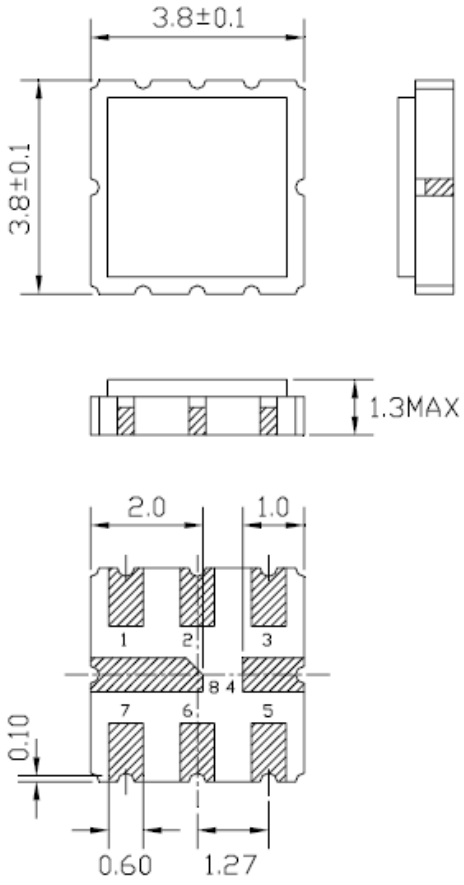
3.8 x 3.8 x 1.3 mm

## FREQUENCY CHARACTERISTIC




## OUTLINE DIMEMSION:




| Pin No. | Function |
|---|---|
| Pin 2 | Input |
| Pin 6 | Output |
| Other | Ground |

Dimensions: mm

ABRACON IS ISO 9001:2008 CERTIFIED

Visit www.abracon.com for Terms & Conditions of Sale

**Revised: 08.11.11**

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

# AFS315.0W01-TS3 SMD 315.0MHz SAW Filter

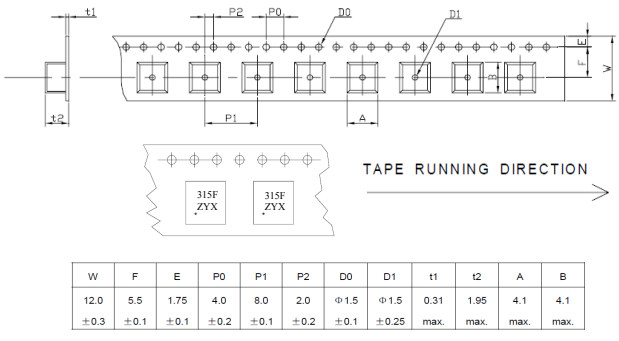
AFS315.0W01-TS3

RoHS

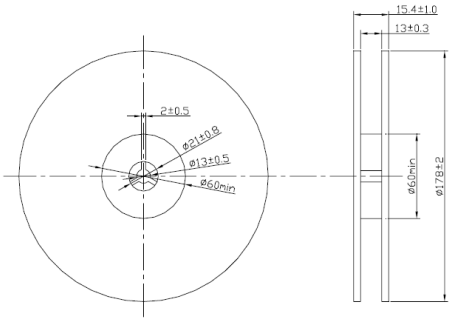


3.8 x 3.8 x 1.3 mm

## PACKAGING: 1000pcs/reel

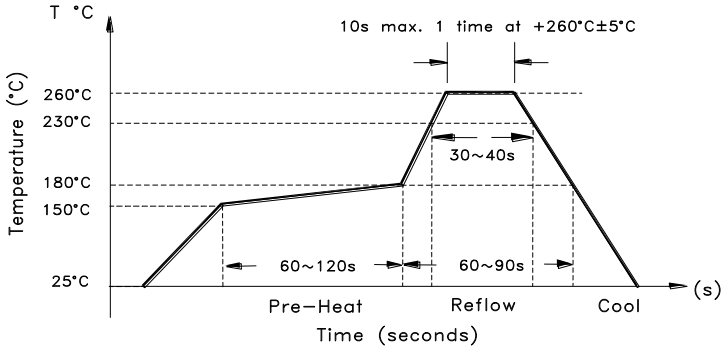



| W | F | E | P0 | P1 | P2 | D0 | D1 | t1 | t2 | A | B |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12.0 ±0.3 | 5.5 ±0.1 | 1.75 ±0.1 | 4.0 ±0.2 | 8.0 ±0.1 | 2.0 ±0.2 | Φ1.5 ±0.1 | Φ1.5 ±0.25 | 0.31 max. | 1.95 max. | 4.1 max. | 4.1 max. |




Dimensions: mm

## REFLOW PROFILE




## CAUTION:

• Static voltage

Static voltage between signal load & ground may cause deterioration & destruction of the component. Please avoid static voltage.

• Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning.

• Soldering

Only leads of component may be soldered. Please avoid soldering another part of component.

**ATTENTION:** Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.



30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com