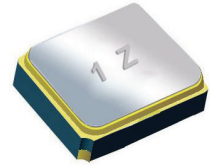


# Surface Mount 915.00MHz SAW Filter

AFS20A26-915.00-T2



RoHS  
Compliant



2.0 x 1.6 x 0.9 mm

## FEATURES:

- 2.0 x 1.6 x 0.9 mm low profile SMT package
- Low Insertion loss
- Excellent selectivity with high out-of-band rejection

## APPLICATIONS:

- Wireless Communication
- Remote Control
- Cellular Phones

## ELECTRICAL SPECIFICATIONS:

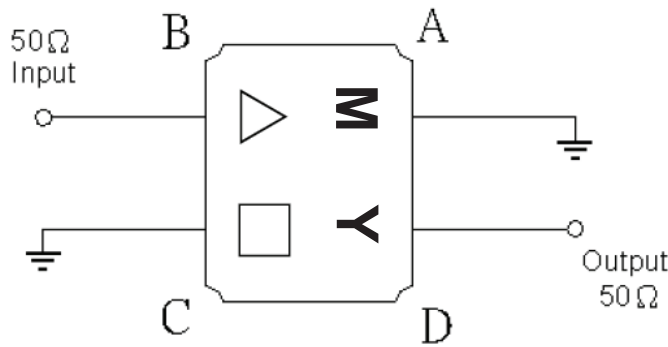
### Maximum Ratings

| Item                        | Value           |
|-----------------------------|-----------------|
| Input Power Level           | +15 dBm max.    |
| DC Permissive Voltage       | 3V DC max.      |
| Operating Temperature Range | -30°C to + 85°C |
| Storage Temperature Range   | -40°C to + 85°C |

| Parameters                                      | Minimum | Typical | Maximum | Units    | Notes               |
|---|---------|---------|---------|----------|---------------------|
| Center Frequency ( $f_c$ )                      |         | 915.00  |         | MHz      |                     |
| Insertion Loss (IL)                             |         | 2.00    | 3.00    | dB       | 902 ~ 928MHz        |
| 3-dB Bandwidth                                  |         | 26      |         | MHz      |                     |
| Amplitude Ripple                                |         | 0.80    | 1.50    | dB       | 902 ~ 928MHz        |
| Worst-Case Input / Output Return Loss           |         | 9.5     | 8.0     | dB       | 902 ~ 928MHz        |
| Stop-band Attenuation<br>(Referenced to 0.0 dB) | 40      | 55      |         | dB       | 10MHz ~ 857.5MHz    |
|   | 35      | 48      |         |          | 857.5MHz ~ 882.5MHz |
|   | 35      | 48      |         |          | 970MHz ~ 1005MHz    |
|   | 45      | 52      |         |          | 1005MHz ~ 1110MHz   |
|   | 30      | 35      |         |          | 1110MHz ~ 3000MHz   |
| Source Impedance ( $Z_s$ )                      |         | 50      |         | $\Omega$ | See note # 1        |
| Load Impedance ( $Z_L$ )                        |         | 50      |         | $\Omega$ | See note # 1        |

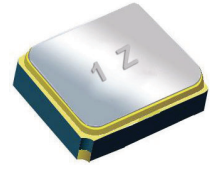
**Note #1:** No matching network required for operation into 50 $\Omega$ 's

## TEST CIRCUIT:



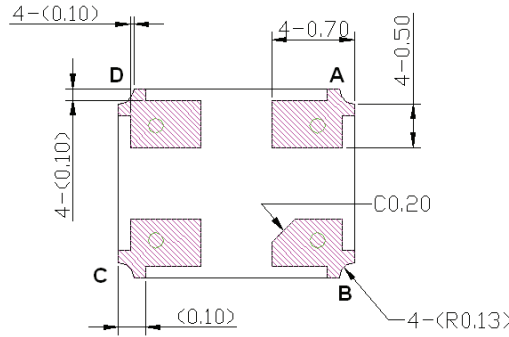
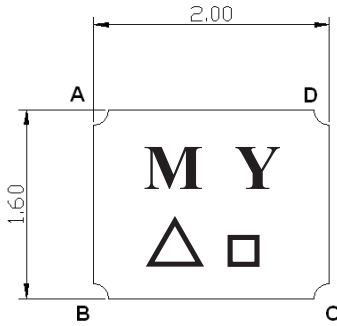
# Surface Mount 915.00MHz SAW Filter

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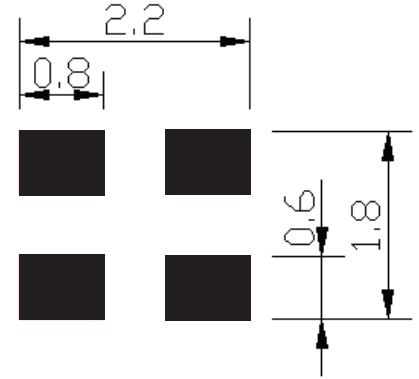


2.0 x 1.6 x 0.9 mm

## OUTLINE DIMENSIONS:



## Recommended Land Pattern:



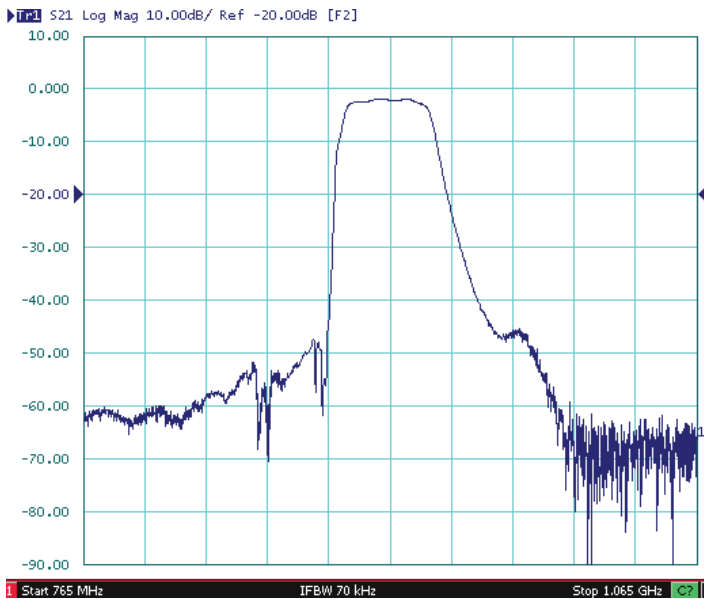
|       |        |
|-------|--------|
| #B:   | Input  |
| #D:   | Output |
| #A,C: | Ground |
| Unit: | mm     |

- △ = Year (1=2011, for example)
- = Week (A through Z → Week-01~ Week-26)  
(a through z → Week-27~ Week-52)

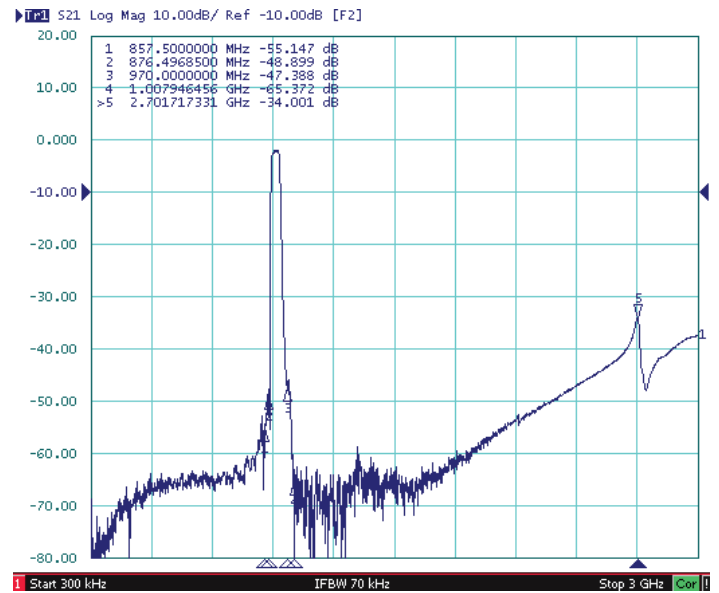
\*All Dimensions are in mm

## FREQUENCY CHARACTERISTICS:

### Filter Frequency Response (Narrowband)



### Filter Frequency Response (Wideband)

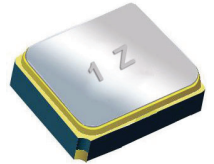


# Surface Mount 915.00MHz SAW Filter

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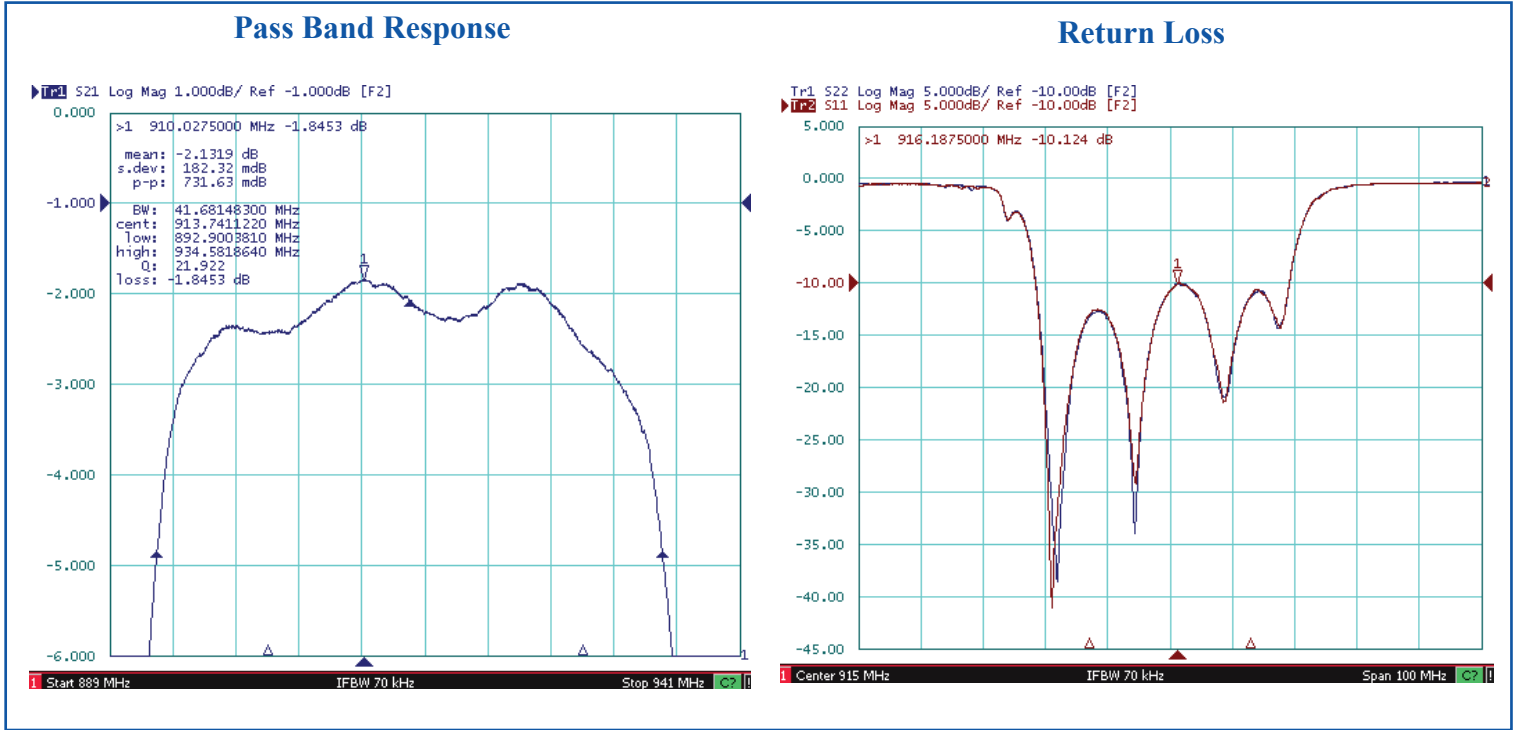


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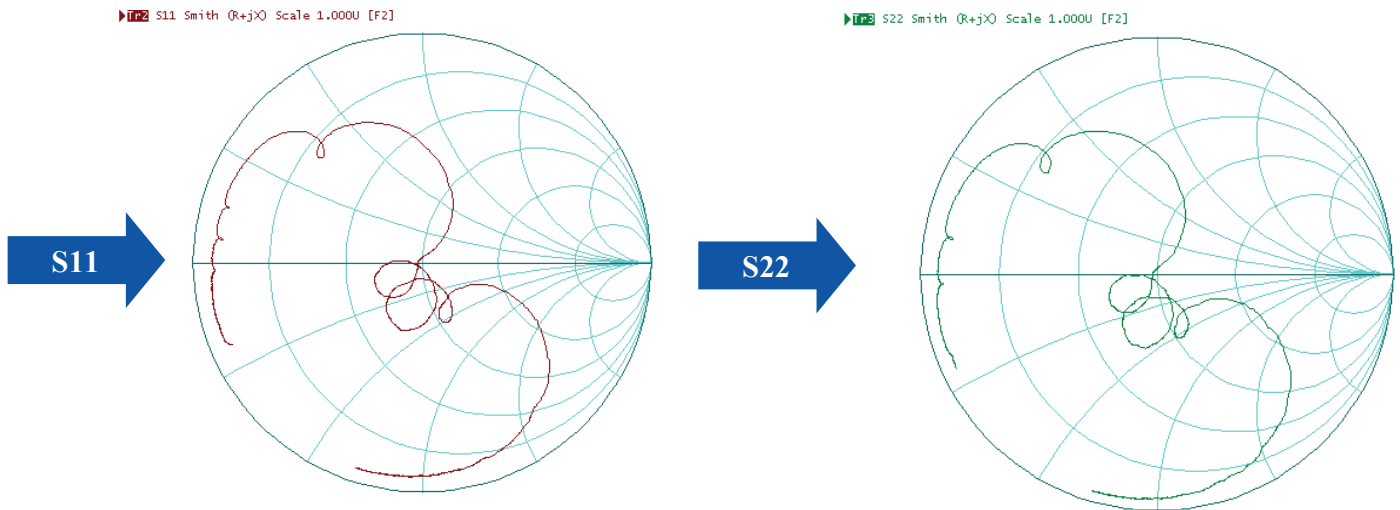


2.0 x 1.6 x 0.9 mm

## FREQUENCY CHARACTERISTIC:



## Reflection Functions:



Note # 2: Detail S parameter information (.s2p file) available upon request

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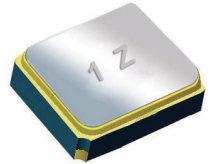
Revised: 05.21.12

# Surface Mount 915.00MHz SAW Filter

AFS20A26-915.00-T2

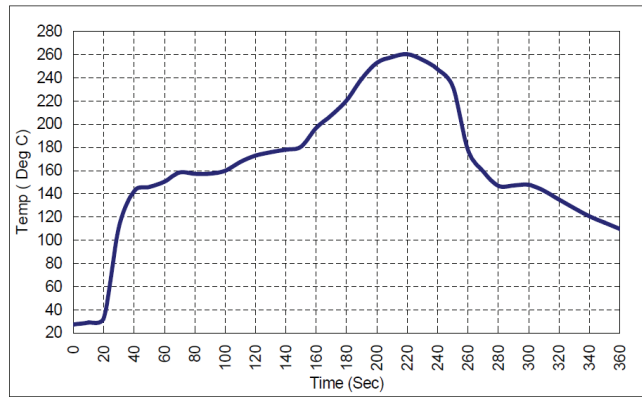


RoHS  
Compliant



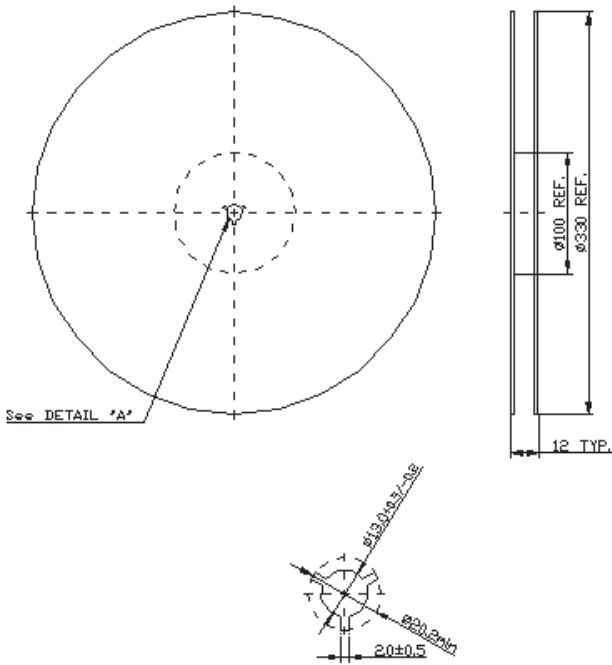
2.0 x 1.6 x 0.9 mm

## REFLOW PROFILE:

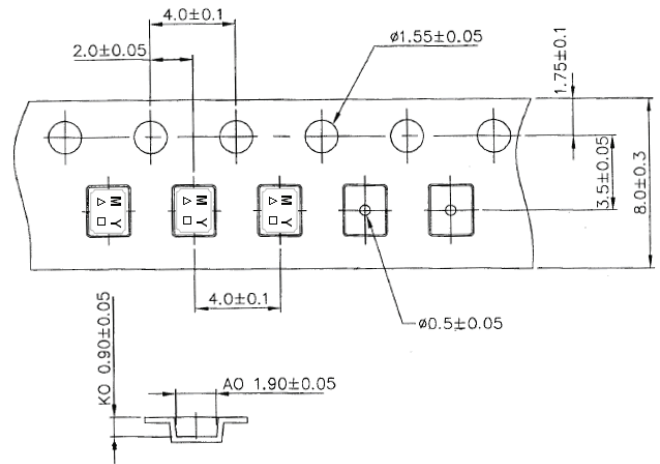


## PACKAGING: 2000 Units/Reel

Reel Dimensions



Tape Dimensions



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