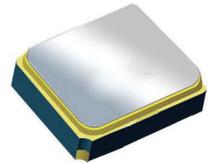


Surface Mount 915.00MHz SAW Filter



1.4 x 1.1 x 0.7 mm

AFS14A26-915.00-T3



**RoHS
Compliant**

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

FEATURES:

- 1.4 x 1.1 x 0.7 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:

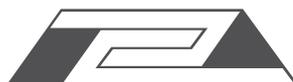
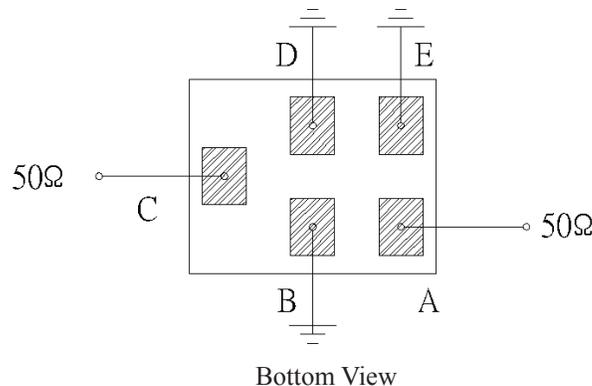
Maximum Ratings

| Item | Value |
|-----------------------------|-----------------|
| Input Power Level | +10 dBm max. |
| DC Permissive Voltage | 3.0V 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) | | 2.5 | 3.1 | dB | 902 ~ 928MHz |
| Effective Bandwidth | | 26 | | MHz | |
| Amplitude Ripple | | 0.4 | 1.5 | dB | 902 ~ 928MHz |
| Group Delay Variation | | 15 | 50 | ns | 902 ~ 928MHz |
| Worst-Case Input / Output Return Loss | 9.0 | 10.0 | | dB | 902 ~ 928MHz |
| Stop-band Attenuation (Referenced to 0.0 dB) | 50 | 53 | | dB | 0.1~702 MHz |
| | 49 | 53 | | | 738~764 MHz |
| | 42 | 48 | | | 820~846 MHz |
| | 42 | 50 | | | 990~1010 MHz |
| | 49 | 53 | | | 1072~1092 MHz |
| | 40 | 42 | | | 1128~1804 MHz |
| | 40 | 42 | | | 1804~1856 MHz |
| | 30 | 36 | | | 1856~3000 MHz |
| Source Impedance (Z_S) | | 50 | | Ω | See note # 1 |
| Load Impedance (Z_L) | | 50 | | Ω | See note # 1 |

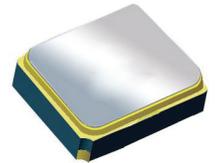
Note #1: No matching network required for operation into 50 Ω 's

TEST CIRCUIT:



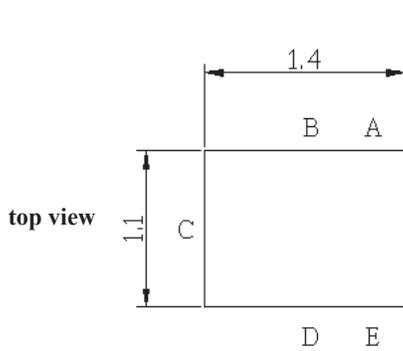
Surface Mount 915.00MHz SAW Filter

AFS14A26-915.00-T3

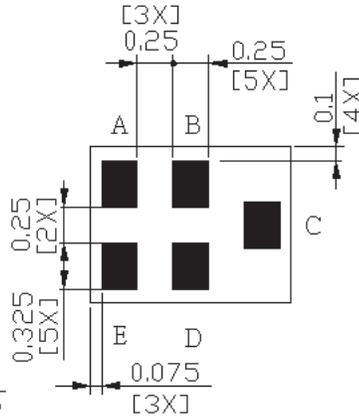


1.4 x 1.1 x 0.7 mm

OUTLINE DIMENSIONS:

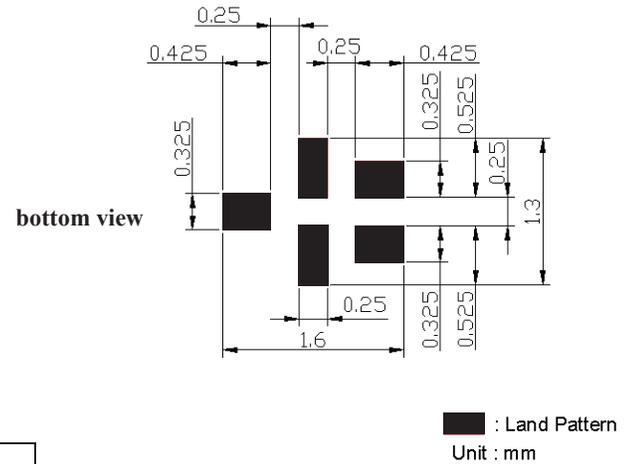


side view



| | |
|----------|--------|
| C: | Input |
| A: | Output |
| B, D, E: | Ground |

Recommended Land Pattern:



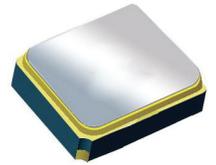
*All Dimensions are in mm

Surface Mount 915.00MHz SAW Filter

AFS14A26-915.00-T3



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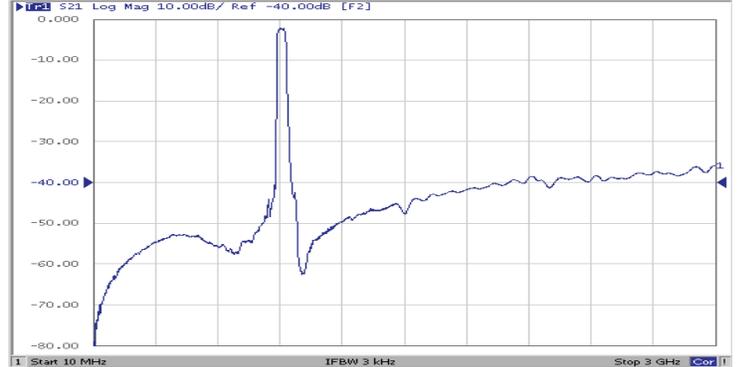
1.4 x 1.1 x 0.7 mm

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

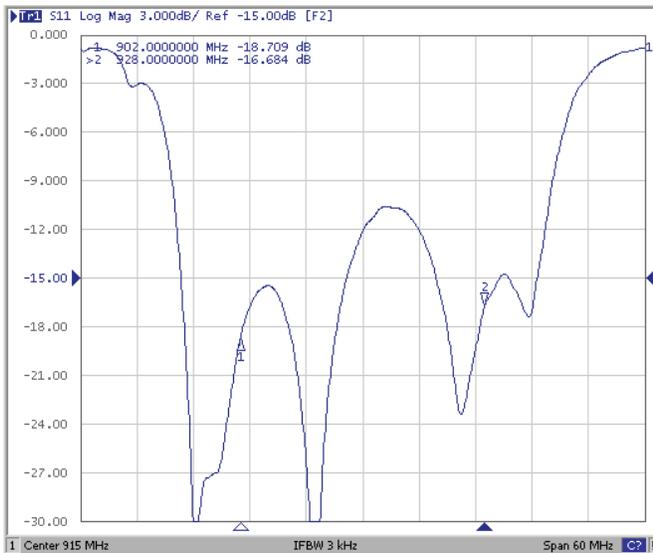


Filter Frequency Response (Wideband)

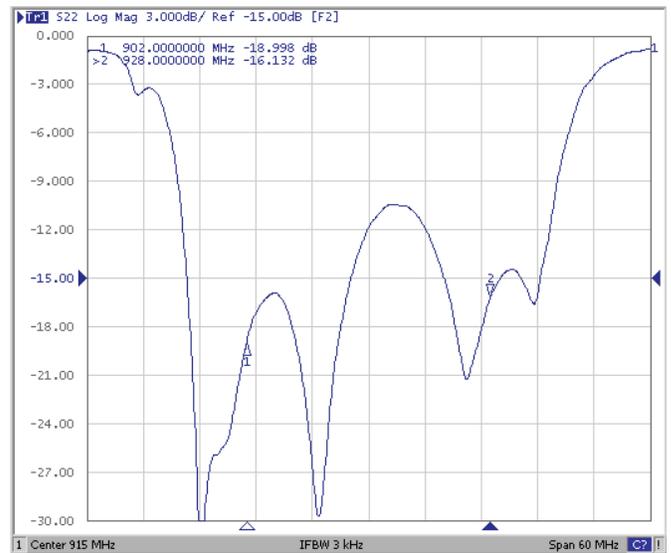


REFLECTION FUNCTIONS:

S11



S22



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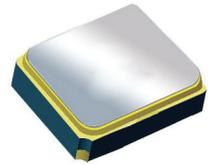
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Surface Mount 915.00MHz SAW Filter

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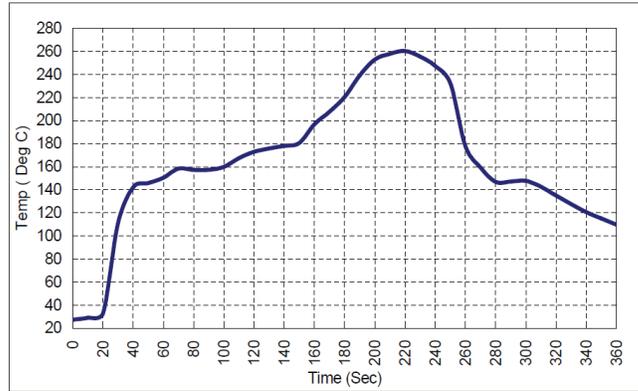


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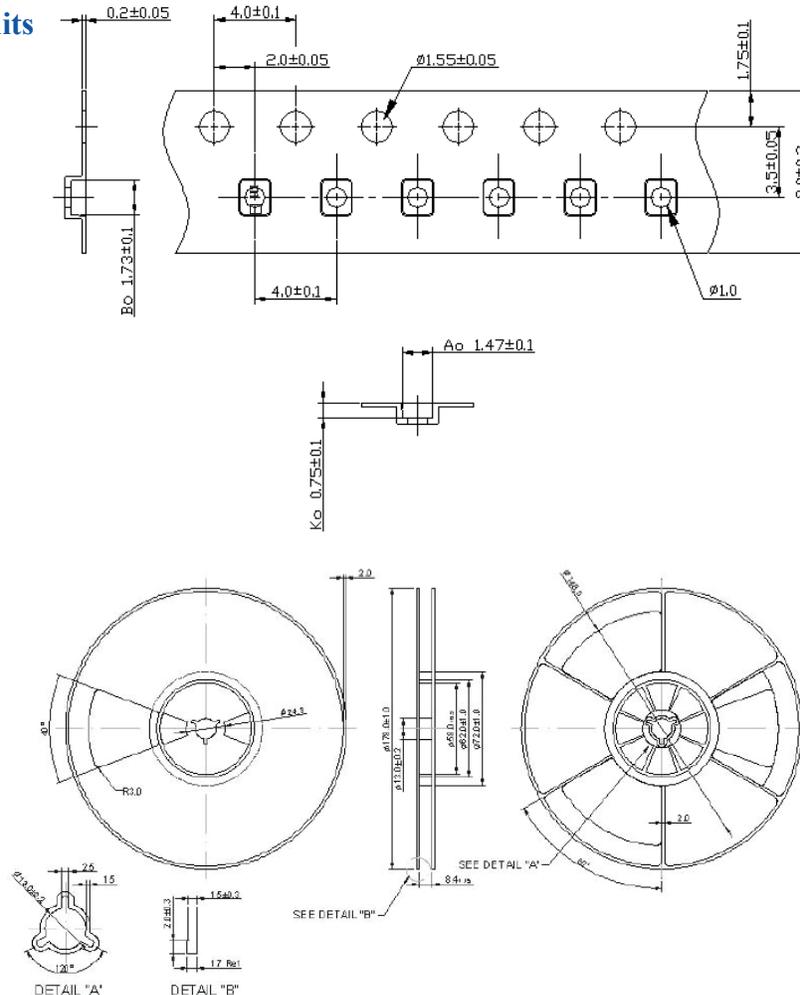
1.4 x 1.1 x 0.7 mm

REFLOW PROFILE:



PACKAGING: 3000 Units/Reel “-T2” parts (2k/reel) are no longer available effective 01/01/2013

Reel Count : 7" = 3k units



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