

# RSFK2185F030B1

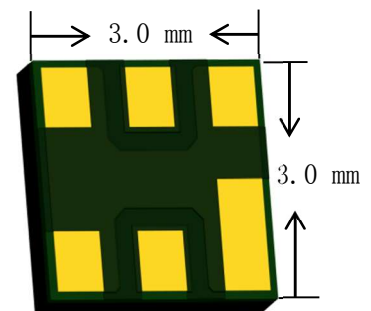
## 2.185GHz Filter

### Description

RSFK2185F030B1 is a miniature filter designed for satellite band equipment. RSFK2185F030B1 is designed with advanced temperature-compensated Film Bulk Acoustic Resonator (FBAR) technology. Typical insertion loss in the pass band is 1.3 dB.

### Features

- ✧ Plastic Chip Scale Package(CSP)
- ✧ Miniature Size
  - 3 mm x 3 mm x 0.85 mm
- ✧ Low Insertion loss
- ✧ Moisture Sensitivity:MSL3



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### Electrical Specification

Operating Temperature range: -55 to +85°C

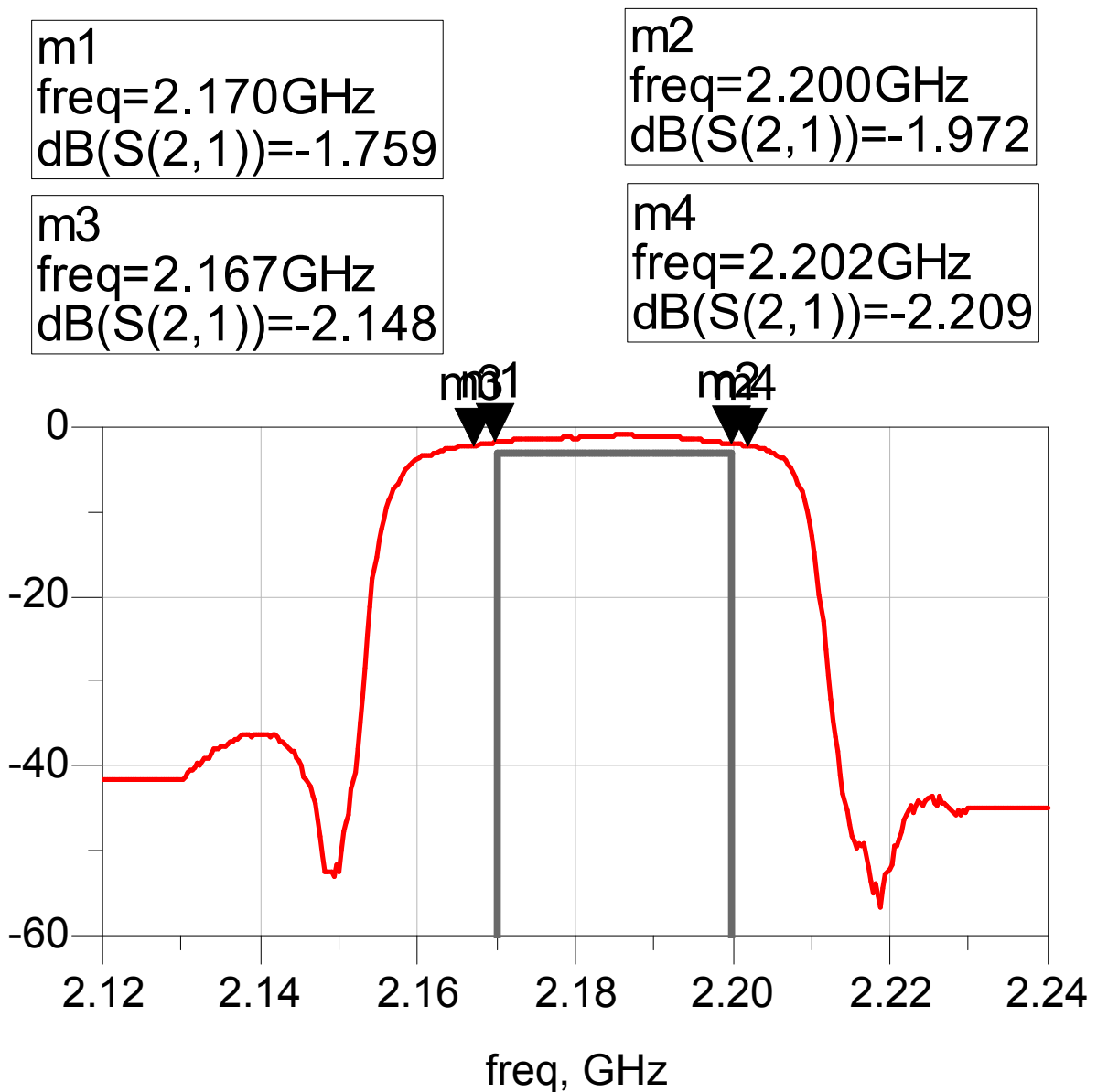
| Parameter                       | Min  | Typ | Max | Unit |
|---------------------------------|------|-----|-----|------|
| Center Frequency                | 2185 |     |     | MHz  |
| Insertion Loss(2170 ~ 2200 MHz) | \    | 1.3 | 2.3 | dB   |
| Ripple(2170 ~ 2200 MHz)         | \    | 1.0 | 1.5 | dB   |
| Return Loss(2170 ~ 2200 MHz)    | 10   | 15  | \   | dB   |
| Absolute Attenuation            | \    |     |     |      |
| 2150 MHz                        | 27   | 45  | \   | dB   |
| 2220 MHz                        | 27   | 45  | \   | dB   |

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Typical Performance at Tc=25° C

## Pass Band Response (S21)



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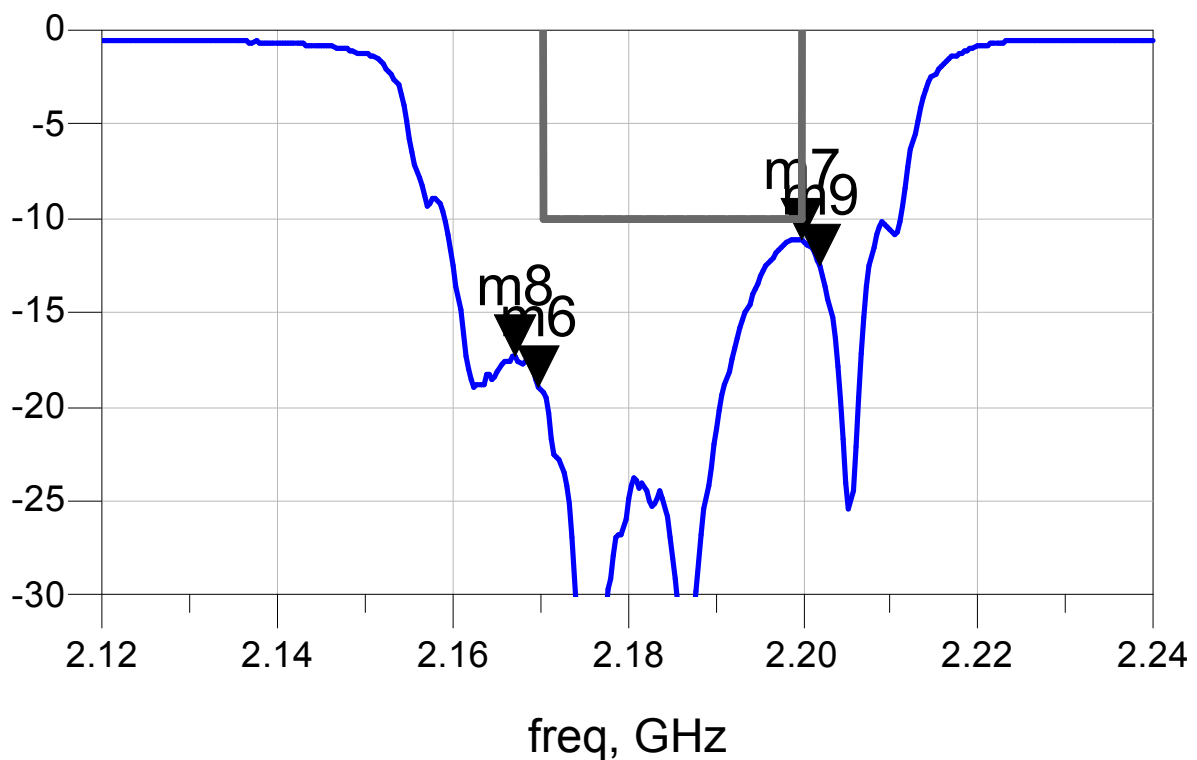
## Pass Band Response (S11)

m6  
freq=2.170GHz  
dB(S(1,1))=-18.947

m7  
freq=2.200GHz  
dB(S(1,1))=-11.144

m8  
freq=2.167GHz  
dB(S(1,1))=-17.298

m9  
freq=2.202GHz  
dB(S(1,1))=-12.541



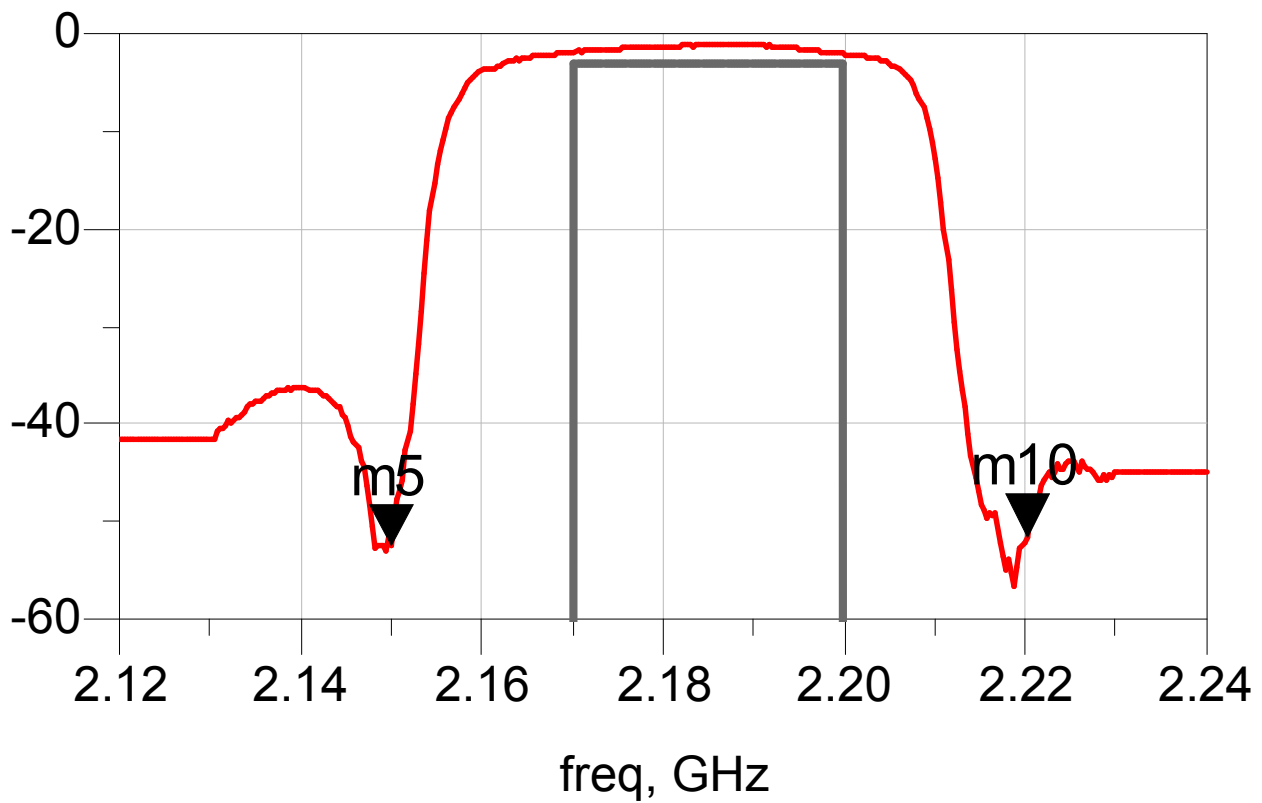
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## Attenuation Response (S21)

m5  
freq=2.150GHz  
dB(S(2,1))=-52.585

m10  
freq=2.220GHz  
dB(S(2,1))=-51.641



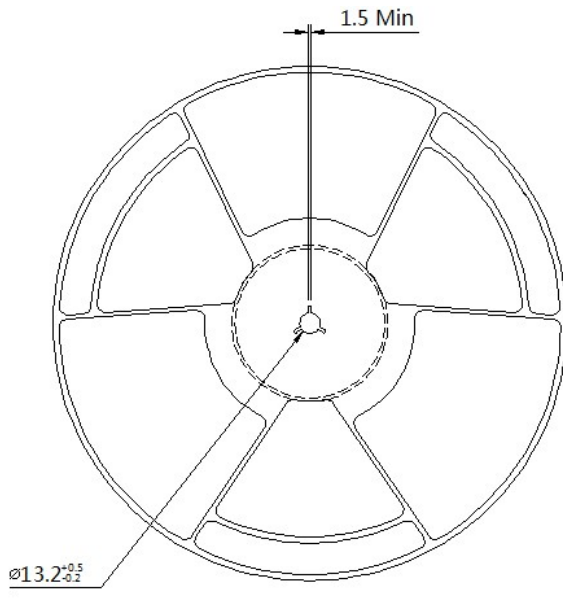


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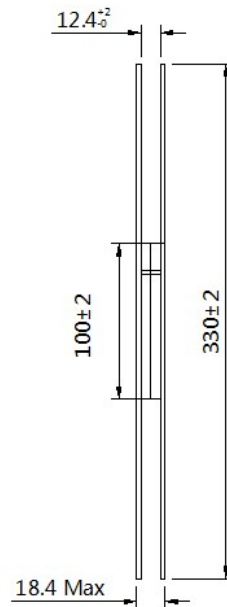
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### 2. Reel Dimension

4000Pcs/Reel



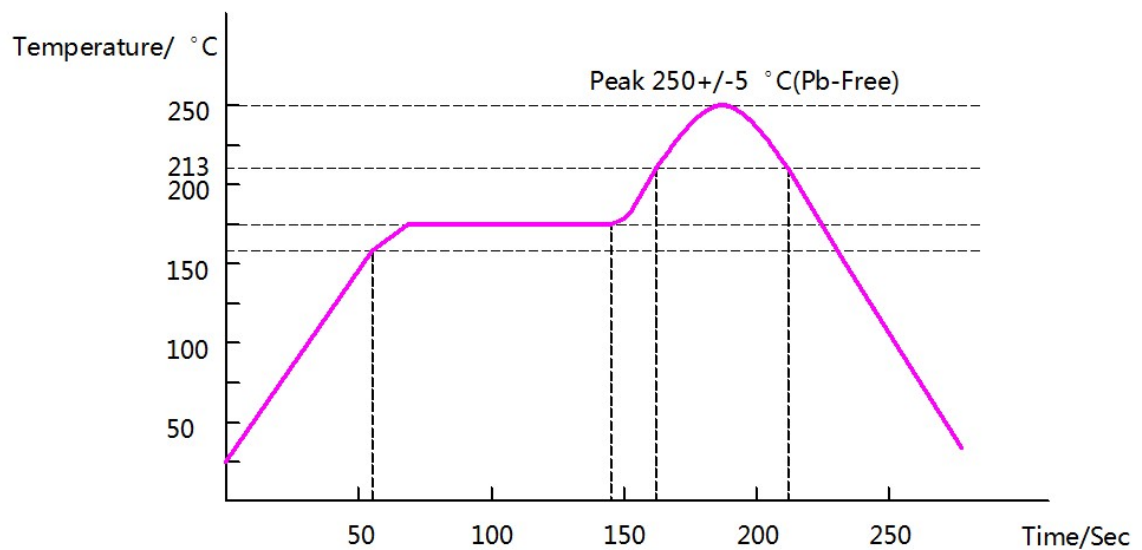
Front View



Side View

Unit: mm

### Recommended IR Reflow Profile



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## Order Information

| Part Number    | Qty Per Reel | Container    |
|----------------|--------------|--------------|
| RSFK2185F030B1 | 4000         | 13 inch Reel |

For more information, please contact: [sales@rofsmicro.com](mailto:sales@rofsmicro.com)

### Notes:

The specification may be changed or the product had been discontinued, please check with our sales or product engineer before order.