

# RADITEK INC.

## SAW Band Pass Filter for DCS-TX Band 1710MHz to 1785MHz, 13 dBm Input Power, Surface Mount RSAW-BPF-1710-1785M-0303-13d-S-p2

code-p2

### MAXIMUM RATING:

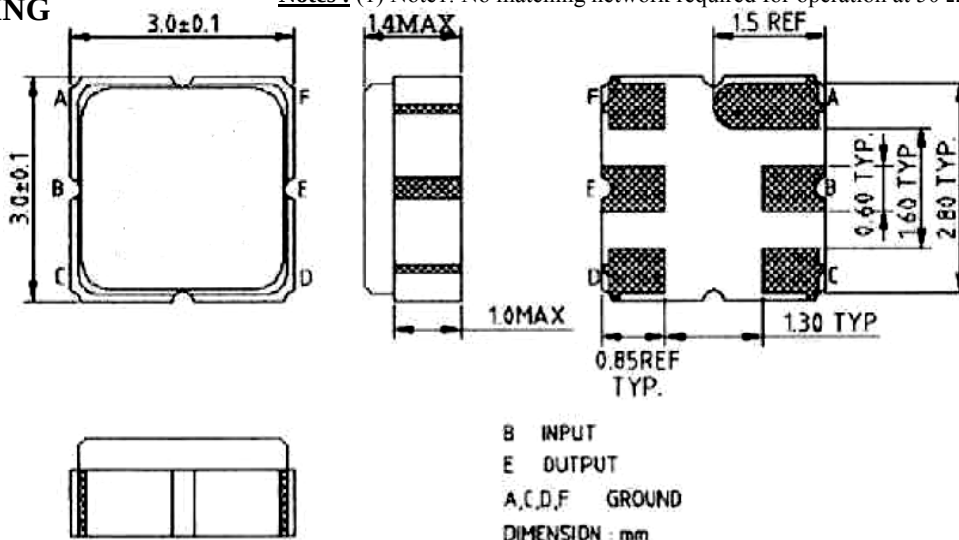
1. Input Power Level: 5 dBm
2. DC voltage: 0 V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

### ELECTRICAL CHARACTERISTICS:

| Parameters Description                   | Unit | Minimum | Typical | Maximum |
|------------------------------------------|------|---------|---------|---------|
| Center Frequency (Fc)                    | MHz  | -       | 1747.5  | -       |
| Insertion Loss (1710 ~ 1785 MHz)         | dB   | -       | 2.6     | 4.0     |
| Amplitude ripple (1710 ~ 1785 MHz)       | dB   | -       | 1.6     | 2.5     |
| Attenuation (Reference level from 0 dB): |      |         |         |         |
| 10 ~ 1670 MHz                            | dB   | 15      | 23      | -       |
| 1670 ~ 1690 MHz                          | dB   | 6       | 23.9    | -       |
| 1805 ~ 1880 MHz                          | dB   | 6       | 24      | -       |
| 1880 ~ 1500 MHz                          | dB   | 15      | 25      | -       |
| 4500 ~ 5000 MHz                          | dB   | 10      | 14      | -       |
| Input/Output VSWR (1710 ~ 1785 MHz)      | -    | -       | 1.8     | 2.5     |
| Source Impedance Z <sub>S</sub>          | Ω    | -       | 50      | -       |
| Load Impedance Z <sub>L</sub>            | Ω    | -       | 50      | -       |

### OUTLINE DRAWING

Notes : (1) Note1. No matching network required for operation at 50 Ω



RSAW-BPF-1710-1785M-0303-13d-S-p2 Specifications may be subject to change

02/18/09

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.

Telephone: (408) 266-7404 FAX: (408) 266-4483

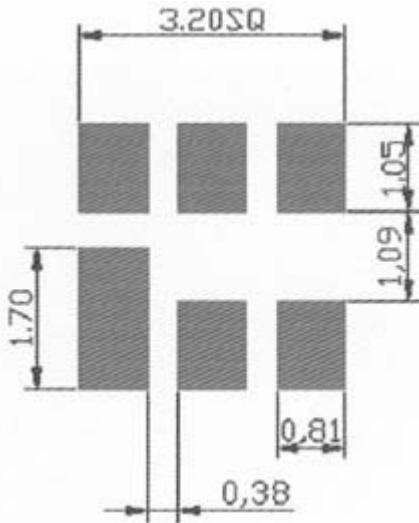
WEB: [www.raditek.com](http://www.raditek.com), E-mail: [sales@raditek.com](mailto:sales@raditek.com)

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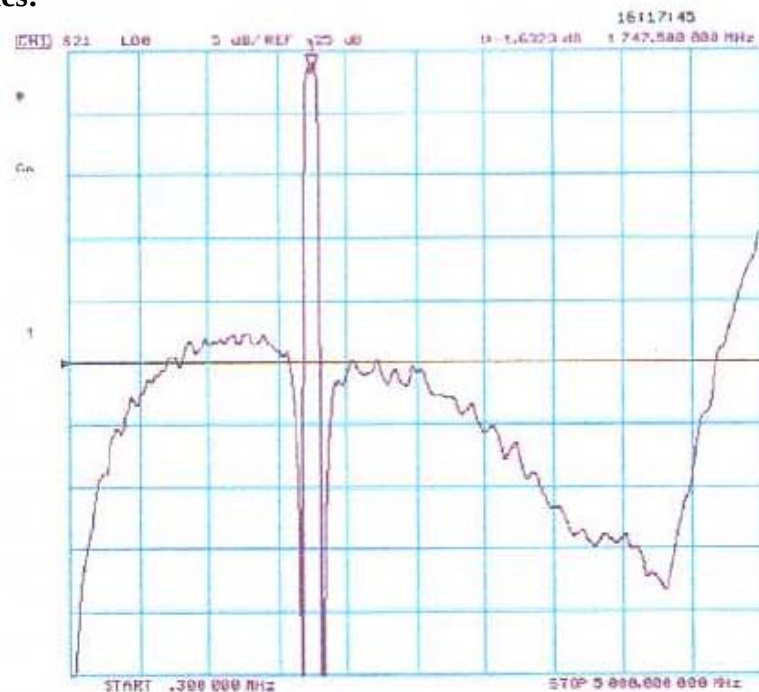
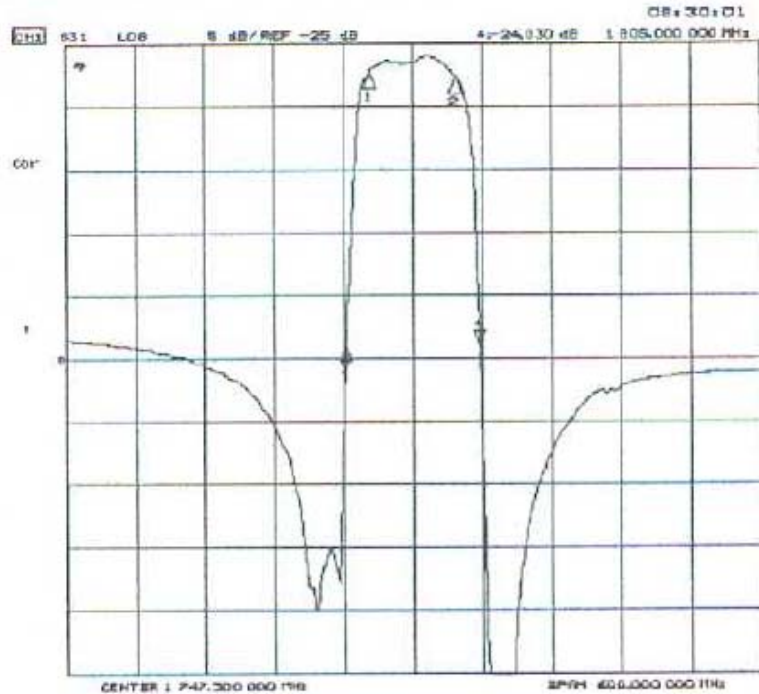
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PCB Foot Print



Frequency Characteristics:  
Transfer function



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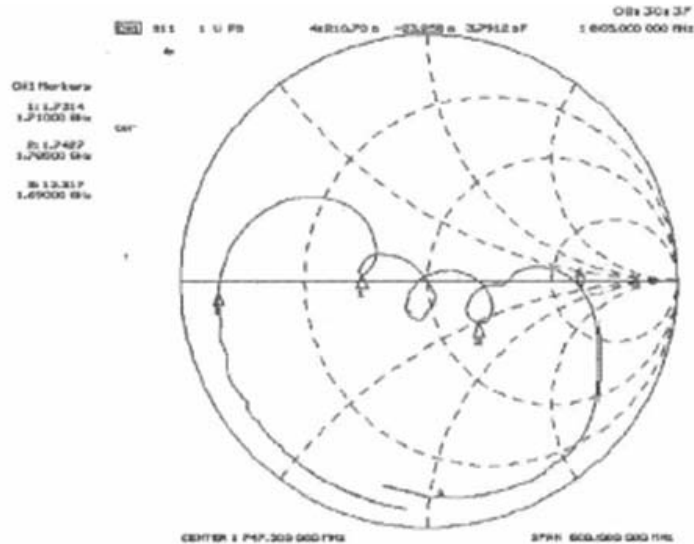
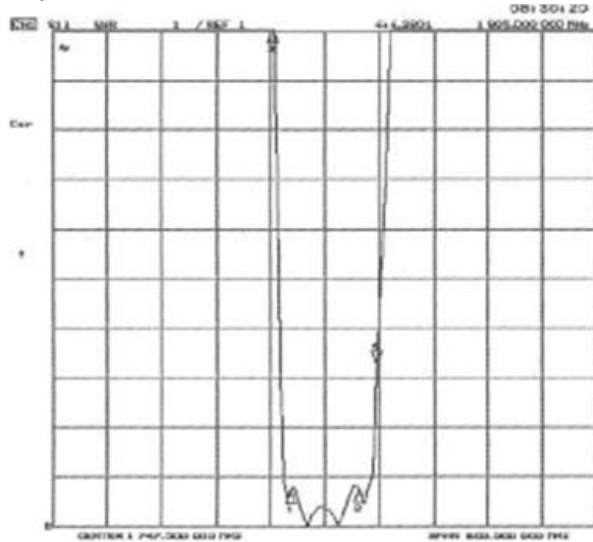
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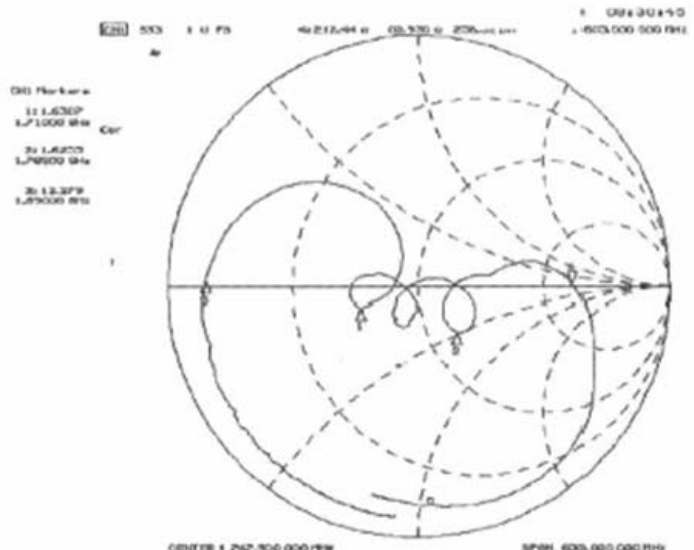
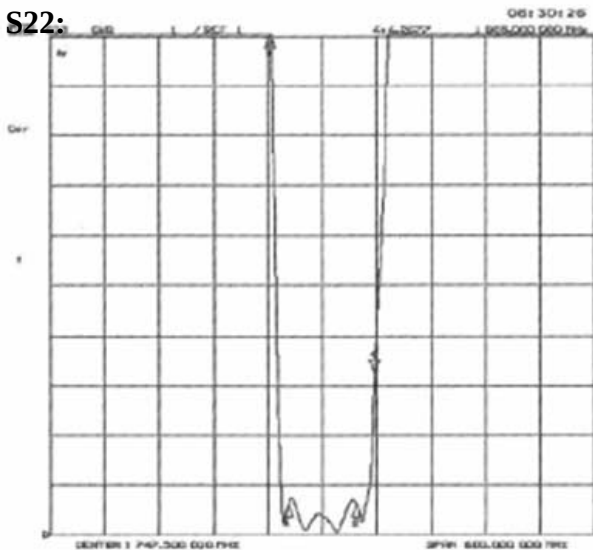
code-p2

S11:

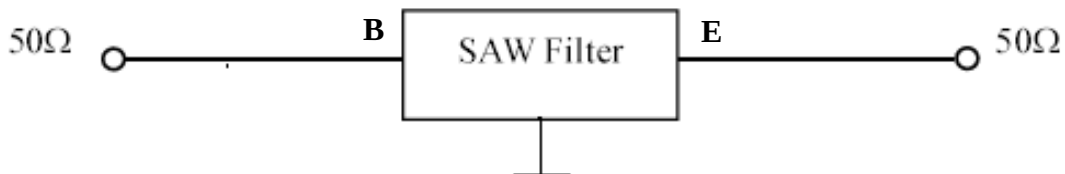
### Reflections Functions



S22:



### MEASUREMENT CIRCUIT



HP NETWORK ANALYZER

A,C,D,F

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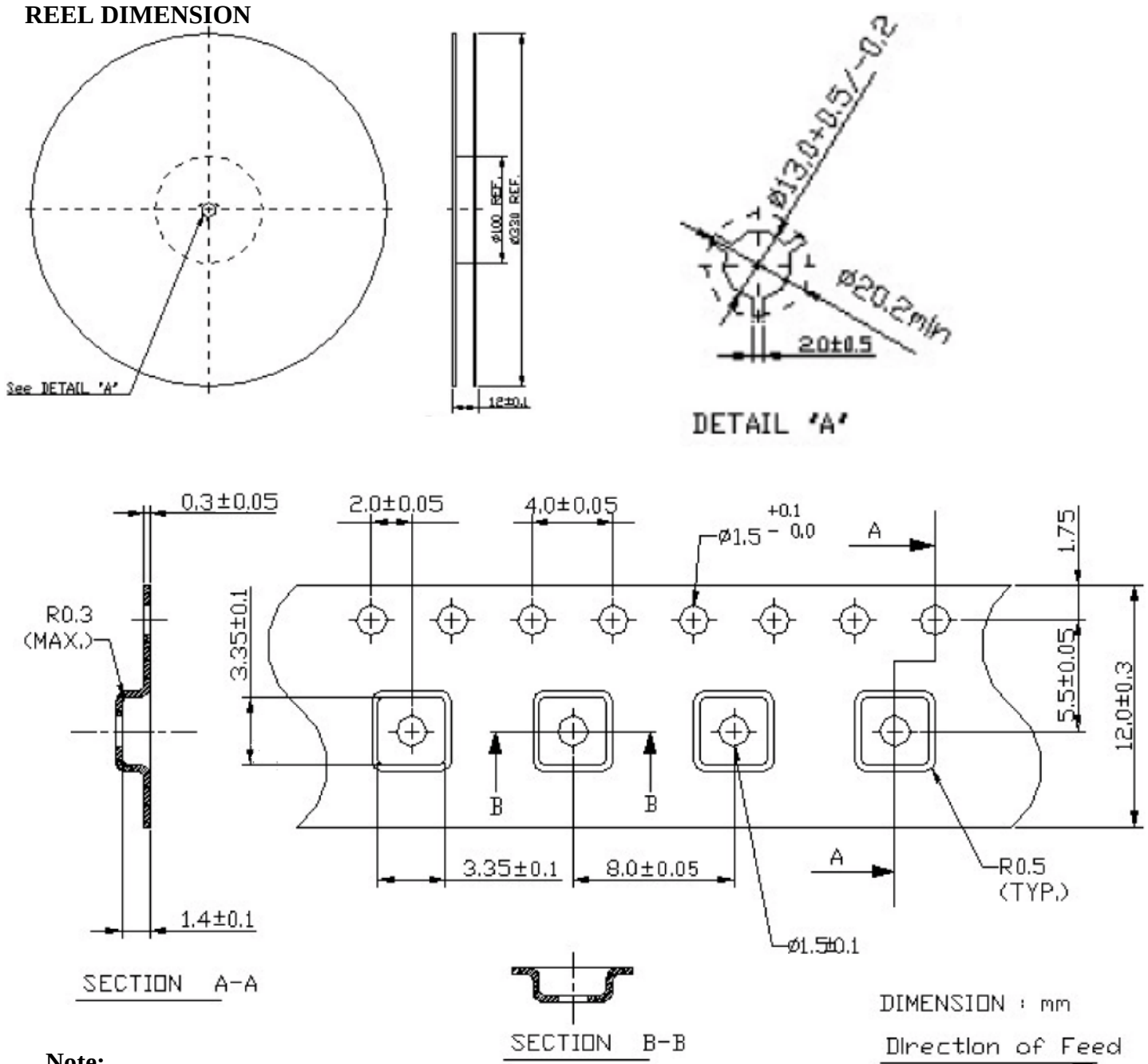
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### Note:

1. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.