A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>1785</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1755 ~ 1815MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.7</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (variation over 3MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.5</td>
<td>1.2</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1755 ~ 1785MHz)</td>
<td></td>
<td>-</td>
<td>1.8</td>
<td>2.4</td>
<td>-</td>
</tr>
<tr>
<td>Group Delay Ripple (variation over 3MHz)</td>
<td>ns</td>
<td>-</td>
<td>2</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.C. ~ 1685MHz</td>
<td>dB</td>
<td>28</td>
<td>31</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1685 ~ 1720MHz</td>
<td>dB</td>
<td>20</td>
<td>42</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1850 ~ 1885MHz</td>
<td>dB</td>
<td>20</td>
<td>53</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1885 ~ 3000MHz</td>
<td>dB</td>
<td>30</td>
<td>37</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Diagram](image)
SAW Filter 1785.0MHz
Model: TA0667A
Part No: MA08970
Rev. No: 1

D. OUTLINE DRAWING:

![Outline Drawing]

E. PCB FOOTPRINT:

![PCB Footprint]
F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

SAW Filter 1785.0MHz  
Part No: MA08970  
Model: TA0667A  
Rev. No: 1
Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension

(Reel Count: 7" = 1000; 13" = 3000)

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph showing the recommended reflow profile. The x-axis represents time in seconds (0 to 360), and the y-axis represents temperature in degrees Celsius (20 to 280). The graph shows a smooth increase in temperature up to 230°C at around 120 seconds, followed by a steady decrease to 20°C at 360 seconds.](image-url)