SAW Filter 1842.50MHz  
Part No: MP02452  
Model: TA0763A  
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: +20dBm
2. DC voltage: 0V
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>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc (dB)</td>
<td>-</td>
<td>1842.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss within 1805 ~ 1880MHz IL (dB)</td>
<td>-</td>
<td>2.2</td>
<td>3.8</td>
</tr>
<tr>
<td>Amplitude ripple (p-p) within 1805 ~ 1880MHz (dB)</td>
<td>-</td>
<td>1.3</td>
<td>2.3</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC ~ 1500MHz (dB)</td>
<td>20.0</td>
<td>24.5</td>
<td>-</td>
</tr>
<tr>
<td>1600 ~ 1710MHz (dB)</td>
<td>22.0</td>
<td>25.0</td>
<td>-</td>
</tr>
<tr>
<td>1710 ~ 1785MHz (dB)</td>
<td>10.0</td>
<td>23.5</td>
<td>-</td>
</tr>
<tr>
<td>1920 ~ 3120MHz (dB)</td>
<td>25.0</td>
<td>28.0</td>
<td>-</td>
</tr>
<tr>
<td>3120 ~ 4000MHz (dB)</td>
<td>17.0</td>
<td>30.0</td>
<td>-</td>
</tr>
<tr>
<td>VSWR within 1805 ~ 1880MHz</td>
<td>-</td>
<td>1.9</td>
<td>2.6</td>
</tr>
<tr>
<td>Source impedance Zs (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance ZL (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

Note: No matching network required for operation at 50Ω

C. MATCHING CIRCUIT:

HP Network analyzer

```
  50Ω   B   SAW Filter   E   50Ω
e  A , C , D , F
```

TA0763A v1
D. FREQUENCY CHARACTERISTICS:

1. Transfer functions

![Graph of frequency characteristics]

1. Transfer functions 2.

![Graph of frequency characteristics]
2. Reflection Functions

**S11 VSWR**

**S22 VSWR**
SAW Filter 1842.50MHz  
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E. OUTLINE DRAWING:

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Recommended Reflow Profile Graph](image)