SAW Filter 441.0MHz  
Part No: MP03507  

A. MAXIMUM RATING:

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

B. ELECTRICAL CHARACTERISTICS:

Reference temperature: 25°C

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>441</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss IL min (reference level)</td>
<td>dB</td>
<td>-</td>
<td>1.5</td>
<td>2.8</td>
</tr>
<tr>
<td>2dB Bandwidth BW -2dB</td>
<td>MHz</td>
<td>19</td>
<td>22.3</td>
<td>-</td>
</tr>
<tr>
<td>Absolute Attenuation: (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fc -100 to Fc -45MHz</td>
<td>dB</td>
<td>40</td>
<td>56</td>
<td>-</td>
</tr>
<tr>
<td>Fc +45 to Fc +55MHz</td>
<td>dB</td>
<td>30</td>
<td>56</td>
<td>-</td>
</tr>
<tr>
<td>Fc +55 to Fc +100MHz</td>
<td>dB</td>
<td>40</td>
<td>54</td>
<td>-</td>
</tr>
<tr>
<td>Temperature coefficient of frequency</td>
<td>ppm/k</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
<tr>
<td>Source impedance Z_s</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Z_l</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

Note: IL min is the minimum of the pass band attenuation. The center frequency Fc is the mean value of the upper and lower frequencies at the 2dB filter attenuation level relative to the IL min.
C. FREQUENCY CHARACTERISTICS:

![Frequency characteristic graph](image)

![Another frequency characteristic graph](image)
SAW Filter 441.0MHz
Model: TA1043A
Part No: MP03507
Rev No: 1

D. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω —— 2 —— SAW Filter —— 6 —— 50Ω

1, 3, 4, 5, 7, 8

E. OUTLINE DRAWING:

#2: Input
#6: Output
#1, 3, 4, 5, 7, 8: Ground
Unit: mm

F. PCB FOOTPRINT:
G. PACKING:

1. REEL DIMENSION

(Reel Count: 7”=1000; 13”=3000 or per the request of customer order)

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Graph showing reflow profile with temperature (°C) on the y-axis and time (Sec) on the x-axis.]}