A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage: 3 V
3. Operating Temperature: 0°C to +50°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>408.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss IL min (reference level)</td>
<td>dB</td>
<td>-</td>
<td>1.4</td>
<td>2.8</td>
</tr>
<tr>
<td>2dB Bandwidth BW -2dB</td>
<td>MHz</td>
<td>16</td>
<td>20.8</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 -45 to Fc -100MHz</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:

---

**SAW Filter 408.50MHz**
**Part No:** MA06743

---

**Model:** TA0417F
**Rev No:** 1

---

**C. FREQUENCY CHARACTERISTICS:**

---

![Graph 1](image1)

---

![Graph 2](image2)
D. MEASUREMENT CIRCUIT:

HP Network analyzer

```
50Ω    2       6   50Ω
       SAW Filter

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:

```
2.28  5.2  1.47

0.21
0.42
```

SAW Filter 408.50MHz  Model: TA0417F
Part No: MA06743  Rev No: 1

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G. PACKING:

1. Reel Dimension

2. Tape Dimension

Direction of Feed