435.50MHz SAW Filter
Part No: MA08948

A. MAXIMUM RATING:
1. Operating Temperature: -20 °C ~ 70 °C
2. Storage Temperature: -40 °C ~ +85 °C

B. CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency <strong>F</strong>&lt;sub&gt;C&lt;/sub&gt; MHz</td>
<td>-</td>
<td>435.5 (-)</td>
</tr>
<tr>
<td>Minimum Insertion loss <strong>I.L.</strong> dB</td>
<td>-</td>
<td>12.4</td>
</tr>
<tr>
<td>3dB BW MHz</td>
<td>27</td>
<td>33.9 (-)</td>
</tr>
<tr>
<td>Amplitude Ripple (<strong>F</strong>&lt;sub&gt;C&lt;/sub&gt; ±13.5MH) dB</td>
<td>-</td>
<td>0.95</td>
</tr>
<tr>
<td>Relative Rejection (Reference to Minimum Insertion loss)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>F</strong>&lt;sub&gt;C&lt;/sub&gt; + 35.5MH dB</td>
<td>35</td>
<td>52</td>
</tr>
<tr>
<td><strong>F</strong>&lt;sub&gt;C&lt;/sub&gt; - 35.5MH dB</td>
<td>35</td>
<td>54</td>
</tr>
<tr>
<td><strong>F</strong>&lt;sub&gt;C&lt;/sub&gt; + 57.5MH dB</td>
<td>45</td>
<td>59</td>
</tr>
<tr>
<td><strong>F</strong>&lt;sub&gt;C&lt;/sub&gt; - 57.5MH dB</td>
<td>45</td>
<td>53</td>
</tr>
<tr>
<td>Temp Coefficient ppm/K</td>
<td>-</td>
<td>-94</td>
</tr>
</tbody>
</table>

Matching:
1. The input of the filter will be matched to 50 ohm
2. The output of the filter will be matched to 50 ohm
C. FREQUENCY CHARACTERISTICS:

(1) S21 Response: (span 300MHz)

(2) Passband of Response: (span: 40MHz)
435.50MHz SAW Filter
Part No: MA08948
Model: TB0490A
REV NO.: 2

(3) S11 Smith Chart: (span 300MHz)

(4) S22 Smith Chart: (span 300MHz)
435.50MHz SAW Filter
Part No: MA08948

D. TEST CIRCUIT:

![Test Circuit Diagram]

- **Zin and Zout are 50 Ohms.**
- **L1=6.8nH, C1=10pF, L2=8.2nH, C2=12pF**

E. OUTLINE DRAWING:

![Outline Drawing]

- Pin 1: RF input
- Pin 2, 3, 6, 7: Ground
- Pin 4, 8: Case Ground
- Pin 5: RF output
F. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION

Direction of feed
G. RECOMMENDED REFLOW PROFILE: