SAW Filter 442.5MHz
Part No: MP02089

Model: TB0658A
REV. NO.: 1

A. MAXIMUM RATING:
1. Operating Temperature: -25°C to +70°C
2. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:
1. Ambient Temperature: 25°C

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
</tr>
<tr>
<td>Center frequency Fc MHz</td>
<td>-</td>
</tr>
<tr>
<td>Minimum Insertion loss I.L. dB</td>
<td>-</td>
</tr>
<tr>
<td>1 dB Bandwidth MHz</td>
<td>15.0</td>
</tr>
<tr>
<td>3 dB Bandwidth MHz</td>
<td>18.0</td>
</tr>
<tr>
<td>Ripple (435.0~450.0MHz) dB</td>
<td>-</td>
</tr>
<tr>
<td>Group-delay Ripple (435.0~450.0MHz) nsec</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from Minimum insertion loss)</td>
<td></td>
</tr>
<tr>
<td>(1) 270.0~405.0MHz dB</td>
<td>35</td>
</tr>
<tr>
<td>(2) 480.0~615.0MHz dB</td>
<td>40</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:
S21 Response: (span250MHz)

Passband Ripple & Group Delay Ripple: (span30MHz)
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Part No: MP02089  REV. NO.: 1
D. OUTLINE DRAWING:

Pin C: RF input
Pin G: RF output
Pin H, D: Case Ground
Pin A, B, E, F: Ground

E. MATCHING CIRCUIT:

\[
\begin{align*}
Z_{in} &= Z_{out} = 50 \text{ohm} \\
L_1 &= 15 \text{nH}, C_1 = 12 \text{pF}, L_2 = 15 \text{nH}, C_2 = 15 \text{pF}
\end{align*}
\]
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F. PCB FOOTPRINT:
G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION

Direction of feed
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H. RECOMMENDED REFLOW PROFILE: