SMMDF302 Material Specification

- **FEATURES**
  - Broad frequency range
  - Low Loss
  - Operable in extreme temperatures
  - Rigid and machinable
  - Available in a wide range of sizes

- **APPLICATIONS**
  - Antenna Substrate

- **SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Conditions</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\mu)</td>
<td>25C, 10MHz</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>(\varepsilon)</td>
<td>25C, 10MHz</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>(\rho)</td>
<td>DC, 25C</td>
<td>(4.2 \times 10^6)</td>
<td>(\Omega)m</td>
</tr>
<tr>
<td>(\tan\delta)</td>
<td></td>
<td>420</td>
<td>C</td>
</tr>
<tr>
<td>Density</td>
<td></td>
<td>4600</td>
<td>kg/m³</td>
</tr>
</tbody>
</table>

- **OPERATION/STORAGE TEMPERATURE**

<table>
<thead>
<tr>
<th>Operating Temperature (°C)</th>
<th>Storage Temperature (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-50 to +150</td>
<td>-50 to +150</td>
</tr>
</tbody>
</table>

- **FREQUENCY CHARACTERISTICS (TYP.)**

- **OPERATION/STORAGE TEMPERATURE**

  - **Operating Temperature (°C)**
    - -50 to +150
  - **Storage Temperature (°C)**
    - -50 to +150

  - **FREQUENCY CHARACTERISTICS**
    - \(\mu\)
    - \(\varepsilon\)
    - \(\rho\)
    - \(\tan\delta\)
    - Density

• All specifications are subject to change without notice.

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