A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Operating temperature range: -0°C to 70°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

<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>153.6</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>12.8</td>
<td>14.0</td>
</tr>
<tr>
<td>-1dB bandwidth</td>
<td>MHz</td>
<td>1.23</td>
<td>1.56</td>
<td>-</td>
</tr>
<tr>
<td>Passband Ripple Fc ± 0.615MHz</td>
<td>dB</td>
<td>-</td>
<td>0.6</td>
<td>1.2</td>
</tr>
<tr>
<td>Temperature Coefficient</td>
<td>ppm/°C2</td>
<td>-</td>
<td>-0.036</td>
<td>-</td>
</tr>
<tr>
<td>Source Impedance</td>
<td>Ohm</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load Impedance</td>
<td>Ohm</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. Wide band Response:

![Wide band Response Plot](image)

Fig. 1. Horizontal: 5MHz/Div, Vertical: 10dB/Div

2. Pass band Response and Group Delay Response:

![Pass band Response and Group Delay Plot](image)

Fig. 2. Horizontal: 10MHz/Div, Vertical: 1dB/Div, Vertical: 100ns/Div
3. Smith Chart:

![Smith Chart Image]
D. MATCHING CIRCUIT:

\[ L_1 = 220 \text{nH} + 47 \text{nH}, \quad L_2 = 220 \text{nH} + 27 \text{nH}, \quad C_1 = 56 \text{pF}, \quad C_2 = 39 \text{pF} \]

E. OUTLINE DRAWING:

J: RF input  
K: RF balance input or to be ground  
D: RF output  
E: RF balance output or to be ground  
A, B, C, F, G, H: Ground  
Unit: mm
F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph](image-url)