A. MAXIMUM RATING:

1. Operating Temperature: -40°C ~ +85°C
2. Storage Temperature: -55°C ~ +85°C
3. Input Power Level: 10dBm

B. CHARACTERISTICS:

Ambient Temperature: 25°C

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
<th>Note.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc MHz</td>
<td>- 140.0</td>
<td>-</td>
</tr>
<tr>
<td>Maximum Insertion loss IL dB</td>
<td>- 9.20 10.75</td>
<td>-</td>
</tr>
<tr>
<td>1dB Bandwidth MHz</td>
<td>12.0 15.1</td>
<td>-</td>
</tr>
<tr>
<td>3dB Bandwidth MHz</td>
<td>15.0 17.6</td>
<td>-</td>
</tr>
<tr>
<td>40dB Bandwidth MHz</td>
<td>- 26.7 40.0</td>
<td>-</td>
</tr>
<tr>
<td>Passband Ripple (Fc ± 6MHz) MHz</td>
<td>- 0.6 1.2</td>
<td>-</td>
</tr>
<tr>
<td>Group Delay Ripple (Fc ± 6MHz) nS</td>
<td>- 75 180</td>
<td>-</td>
</tr>
<tr>
<td>Temp Coefficient ppm/° C</td>
<td>- -94</td>
<td>-</td>
</tr>
</tbody>
</table>

C. TEST FIXTURE:

\[ L1=47\text{nH} \quad C1=56\text{pF} \quad L2=47\text{nH} \quad C2=150\text{pF} \]
D. OUTLINE DRAWING:

L RF: Input
M RF: Input ground
E RF: Output
F RF: Output ground
A, B, C, D, G, H, J, K: To be ground
Unit: mm
E. FREQUENCY CHARACTERISTICS:

1. S21 Response

![Graph of S21 Roll-off showing frequency characteristics.](image)

Fig.1: Horizontal: 100MHz/Div; Vertical: 10dB/Div

2. Pass band Ripple and Group Delay Ripple

![Graph showing pass band ripple and group delay ripple.](image)

Fig.2: Horizontal: 2MHz/Div; Vertical: 1dB/Div; Vertical: 100nS/Div
F. PCB FOOTPRINT:
G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION