A. MAXIMUM RATING:

1. Operating Temperature: -25°C ~ +85°C
2. Storage Temperature: -40°C ~ +85°C
3. Input Power Level: 10dBm

B. CHARACTERISTICS:

1. Ambient Temperature: 25°C
2. Terminating source impedance: $Z_s = 50\Omega$ (Single ended)
3. Terminating load impedance: $Z_L = 500\Omega$ (Balanced) or $50\Omega$ (Single ended)

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
<td>Typ.</td>
</tr>
<tr>
<td>Center Frequency Fc MHz</td>
<td>-</td>
<td>210.38</td>
</tr>
<tr>
<td>Insertion Loss at Fc dB</td>
<td>-</td>
<td>8.2</td>
</tr>
<tr>
<td>Passband Ripple (Fc ± 300kHz) dB</td>
<td>-</td>
<td>0.4</td>
</tr>
<tr>
<td>5dB Bandwidth MHz</td>
<td>±0.63</td>
<td>±0.82</td>
</tr>
<tr>
<td>34dB Bandwidth MHz</td>
<td>-</td>
<td>±1.18</td>
</tr>
<tr>
<td>36dB Bandwidth MHz</td>
<td>-</td>
<td>±1.20</td>
</tr>
<tr>
<td>Phase Linearity (Fc ± 630kHz) rms deg</td>
<td>-</td>
<td>2.60</td>
</tr>
<tr>
<td>Absolute Delay μS</td>
<td>-</td>
<td>716</td>
</tr>
<tr>
<td>Temperature Coefficient ppm/K$^2$</td>
<td>-</td>
<td>-0.036</td>
</tr>
</tbody>
</table>

Attenuation: (Reference level from Fc)

| Fc ±1.25MHz dB                           | 35   | 48   |
| 140MHz ~ 206MHz dB                       | 38   | 45   |
| 214.76MHz ~ 280MHz dB                    | 38   | 48   |
C. MEASUREMENT CIRCUIT:

1. Single ended input 50ohm to Single ended Output 50ohm

2. Single ended input 50ohm to Balanced Output 500ohm
D. FREQUENCY CHARACTERISTICS:

1. S21 Response

![Graph showing S21 response](image)

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

2. Pass band Ripple

![Graph showing pass band ripple](image)

Fig. 2. Horizontal: 0.2MHz/Div, Vertical: 1dB/Div
3. Group Delay Ripple

Fig. 3. Horizontal: 0.2MHz/Div, Vertical: 200nS/Div
E. PCB FOOTPRINT:

![PCB Footprint Diagram]

F. OUTLINE DRAWING:

![Outline Drawing Diagram]

J: RF Input
L: RF Input Ground
D: RF Output or Balanced Output +
F: RF Output Ground or Balanced Output -
A, B, C, G, H, I: To be Ground
G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION

Direction of feed
H. RECOMMENDED REFLOW PROFILE:

![Graph Illustrating Recommended Reflow Profile](image)