SPECIFICATIONS:

- FREQUENCY RANGE: 8 - 12GHz
- ATTENUATION RANGE: 50dB MINIMUM
- INSERTION LOSS: 7dB MAXIMUM
- RETURN LOSS: 2.0:1 MAXIMUM
- ATTENUATION ACCURACY: ±0.9dB MAXIMUM
- ATTENUATION FLATNESS: 0 TO 30dB: ±0.9dB MAXIMUM
  >30dB TO 40dB: ±1.3dB MAXIMUM
  >40dB TO 50dB: ±TBD MAXIMUM
- PHASE: 0 TO 30dB: ±5° MAXIMUM
  >30dB TO 40dB: ±9° MAXIMUM
  >40dB TO 50dB: ±TBD° MAXIMUM
- SWITCHING TIME: 250nsSec MAXIMUM
  (DIGITAL DELAY PLUS RF ENVELOPE RISE/FALL TIME)
- SETUP TIME: 45nsSec MINIMUM
  (RISING TTL CLOCK EDGE)
- RF INPUT POWER (OPERATING): +20dBm MAXIMUM
- RF INPUT POWER (SURVIVAL): +27dBm MAXIMUM
- ATTENUATION CONTROL BITS: 9 BIT MINIMUM
  (POSITIVE BINARY DIGITAL TTL WITH CTL CLOCK LATCH)
- ATTENUATION LSB STEPS: 0.1dB STEP MINIMUM
- TEMPERATURE VARIATION: ±0.9dB MAXIMUM
- SPURIOUS SIGNALS: -130dBm MAXIMUM
- POWER SUPPLY: +15VDC @ 300mA MAXIMUM

<table>
<thead>
<tr>
<th>PIN NUMBER</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B0</td>
</tr>
<tr>
<td>2</td>
<td>B1</td>
</tr>
<tr>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>4</td>
<td>B3</td>
</tr>
<tr>
<td>5</td>
<td>B4</td>
</tr>
<tr>
<td>6</td>
<td>B5</td>
</tr>
<tr>
<td>7</td>
<td>B6</td>
</tr>
<tr>
<td>8</td>
<td>B7</td>
</tr>
<tr>
<td>9</td>
<td>B8</td>
</tr>
<tr>
<td>10</td>
<td>GND</td>
</tr>
<tr>
<td>11</td>
<td>GND</td>
</tr>
<tr>
<td>12</td>
<td>GND</td>
</tr>
<tr>
<td>13</td>
<td>CLOCK</td>
</tr>
<tr>
<td>14</td>
<td>+V</td>
</tr>
<tr>
<td>15</td>
<td>GND</td>
</tr>
</tbody>
</table>

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -0°C TO +85°C (OPERATING)
  -65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 2040 COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 1070 COND. B

AMERICAN MICROWAVE CORPORATION
7311-G GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-4700 FAX: 301-662-4938
WEBSITE: www.americannmicrowavecorp.com
E-MAIL: sales@americannmicrowavecorp.com
ISO 9001:2000 CERTIFIED

PRODUCT FEATURE
PI–DVAN–8012–8
OPTION LVTTL

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION
* Units are designed to meet Environmental ratings but not tested if
  Environmental Testing is required, please contact Sales Department.