FEATURES

- Limiter Protected Up to 1 Watt CW
- Broadband Flat Frequency Response
- Optimum Limiter-Detector Interface Design
- Hermetically-Sealed Package
- Fast Pulse Detecting Capability (less than 5nsec Typical Rise Time)
- Excellent Temperature Stability (+/- 0.5dB Typical over Temperature Extremes)

APPLICATIONS

- Radar Equipment
- Transmitter Monitoring
- Power and Signal Monitoring
- Missile Guidance Systems

ENVIRONMENTAL RATINGS

Max Input Power………………………….. 1 Watt CW
Operating Temperature Range………-55°C to +100°C
Storage Temperature Range………..-55°C to +100°C
Shock…………………………………. 50G, 11 msec
Vibration………………………….. 20G, 100 to 2000 Hz

Specifications: (@ +25°C, Up to -20 dBm Power Input)

<table>
<thead>
<tr>
<th>MODEL ¹</th>
<th>FREQUENCY RANGE (GHz)</th>
<th>TYPICAL SENSITIVITY K (mV / mW)</th>
<th>TYPICAL² TSS (dBm)</th>
<th>MAXIMUM FLATNESS (+/- dB)</th>
<th>MAXIMUM INPUT POWER (dBm)</th>
<th>TYPICAL OUTPUT CAPACITANCE (pF)</th>
<th>PACKAGE ³ STYLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTL0520</td>
<td>0.5 – 2.0</td>
<td>800</td>
<td>-50</td>
<td>1.0</td>
<td>+ 27</td>
<td>50</td>
<td>B</td>
</tr>
<tr>
<td>DTL0520H</td>
<td>0.5 – 2.0</td>
<td>500</td>
<td>-48</td>
<td>1.0</td>
<td>+ 30</td>
<td>50</td>
<td>C</td>
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<tr>
<td>DTL2018</td>
<td>2.0 – 18</td>
<td>600</td>
<td>-49</td>
<td>1.2</td>
<td>+ 27</td>
<td>10</td>
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<tr>
<td>DTL2018H</td>
<td>2.0 – 18</td>
<td>300</td>
<td>-46</td>
<td>1.5</td>
<td>+30</td>
<td>10</td>
<td>B</td>
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<tr>
<td>DTL1018</td>
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<td>DTL1018H</td>
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<td>300</td>
<td>-46</td>
<td>1.5</td>
<td>+30</td>
<td>20</td>
<td>C</td>
</tr>
</tbody>
</table>

Note 1: Negative output polarity standard. Add “P” to end of model number for positive output polarity.
Note 2: TSS based on 2 MHz video bandwidth and 2 dB amplifier NF.
Note 3: See detector package outlines.

For Package Outlines see Outline Drawings Page