FEATURES

- Extended TSS to -60 dBm Minimum
- Subminiature Sizes for Drop-In Applications
- Extremely Low Power Consumption (0.1 Watt Typical)
- Matched Input for Low VSWR (2.0:1 Max)
- Flat Frequency Response (+/- 1 dB Typical)
- High Voltage Sensitivity (K = 10000 mV/mW Min)
- Hermetically Sealed Package for Military Application

APPLICATIONS

- Direct detection for very weak signals
- Extended radar detection range
- Ideal RF leakage monitoring

ENVIRONMENTAL RATINGS

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

Specifications: (@ +25°C)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FREQUENCY RANGE (GHz)</th>
<th>MINIMUM SENSITIVITY K (mV / mW)</th>
<th>MINIMUM TSS (dBm)</th>
<th>MAXIMUM FLATNESS (+ dB)</th>
<th>MAXIMUM VSWR</th>
<th>OUTLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTA182544</td>
<td>1 – 18</td>
<td>10000</td>
<td>-60</td>
<td>1.5</td>
<td>2:1</td>
<td>1A, L3</td>
</tr>
</tbody>
</table>

Note 1: Negative output polarity standard. Add “P” to end of model number for positive output polarity.
Note 2: Sensitivity K for square law range up to -25 dBm input.
Note 3: TSS based on 2 MHz video bandwidth and 2 dB video amplifier.
Note 4: DC bias requirement: +3.2 +/- 0.2 V, 30 mA nominal. (To avoid permanent damage the bias voltage shall not be greater than +3.4 V)
Note 5: Standard package style 1A add letter “L3” to the end of model number for subminiature package.

For Package Outlines see Outline Drawings Page