DC-3 GHz VOLTAGE LIMITER — LV3000A
for DC, AC Analog, Digital, RF, Impulse, and Microwave Signals
Max Input +/- 10 VDC or +30 dBm

- Frequency from true DC (0 Hz) to 3 GHz.
- No frequency break up in between DC to 3 GHz.
- No Bias Required.
- Typical threshold level (±0.7VDC or 0 dBm microwave).
- Low Output leakage level (±1.5V Typical @ ±10V input, +13 dBm Typical @ +30 dBm input microwave)
- No concern of rise time or recovery time
- Low harmonics generation (-20 dBc typical at rated input power).
- Small size option for coaxial SMA or surface mount drop-in package.
- Hermatically sealed package.

LV3000A Typical Performance @ + 25 Deg. C (Preliminary)

<table>
<thead>
<tr>
<th>FREQUENCY RANGE</th>
<th>VSWR -10 dBm OR 0.1V</th>
<th>INSERTION LOSS @ -10 dBm or 0.1V</th>
<th>LIMITING THRESHOLD LEVEL</th>
<th>OUTPUT LEAKAGE (50 Ohm Load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Hz DC (+V OR -V)</td>
<td>Same as external load value</td>
<td>0 to 12% Typical</td>
<td>± 0.7V Typical</td>
<td>± 0.8V Typical @ ± 5V Input</td>
</tr>
<tr>
<td>0 Hz &lt; to 3 GHz AC Analog or Digital</td>
<td></td>
<td></td>
<td></td>
<td>± 1.5V Typical @ +10V Input</td>
</tr>
<tr>
<td>0 Hz &lt; to 3 GHz Microwave</td>
<td>2 : 1 Typ @ 3 GHz</td>
<td>1 dB Typ @ 3 GHz</td>
<td>0 dBm Typical</td>
<td>+13 dBm Typical @ +30 dBm Input</td>
</tr>
</tbody>
</table>

Custom Designs: Please call for Detailed Brochures
Other Herotek Products: Detectors, Amplifiers, Switches, Comb Generators, Impulse Generators, Multipliers, Integrated Subassemblies

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