High Speed (up to 40 Gbit/s) Multi-Mode Fiber-Coupled Photodetector Module (700-890 nm)

WITH FC CONNECTORIZED FIBER PIGTAIL

Product Code: D30-850M

Product Description

These high speed photodetector modules consist of a GaAs pin photodetector integrated with a 50 µm-core diameter multimode fiber for optical input. The responsivity is greater than 0.4 A/W at 850 nm. The modules are engineering samples and use an optional external DC bias-T.

Features

- MMF Pigtail (50 µm core, 1 m length);
- Anritsu V electrical connector;
- FC/PC optical output connector;
- 3 dB bandwidth ≥ 30 GHz

Applications

- Fiber optics systems tests
- Research and development
- VCSEL testing

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Typical</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Operating Wavelength</td>
<td>700 – 890 nm</td>
<td></td>
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<tr>
<td>3 dB Bandwidth</td>
<td>≥ 30 GHz</td>
<td></td>
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<tr>
<td>Rise time (20% to 80%)</td>
<td>8 ps</td>
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<tr>
<td>FWHM Pulse Width</td>
<td>17 ps</td>
<td>to a TiSa &lt; 3 ps input pulse</td>
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<tr>
<td>Maximum Responsivity</td>
<td>0.4 A/W</td>
<td></td>
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<tr>
<td>Dark Current</td>
<td>&lt; 10 pA</td>
<td></td>
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<tr>
<td>Reverse bias voltage</td>
<td>-2 to -4 volts</td>
<td></td>
</tr>
<tr>
<td>Maximum input power</td>
<td>2 mW @ 850 nm</td>
<td></td>
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</table>

All product specifications and descriptions are subject to change without notice.

www.v-i-systems.com
Datasheet

High Speed Photodetector Module
D30-850M

Frequency graph

-30  |  0  |  10  |  20  |  30  |  40
Detector Sensitivity, dB

0  |  10  |  20  |  30  |  40
Frequency, GHz

bandwidth 30 GHz

Pulse response (-2V bias)

optical pulse response
FWHM ~17 ps

Mechanical dimensions

Schematic Diagram

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