A8KFT3HD-1310 1.2GHz High Density Forward Path CATV Transmitter

Overview

The ACION 8000 A8KFT3HD-1310 is a 1.2GHz high density 1310nm forward path optical transmitter (Tx) for HFC or FTTH applications. This compact and cost effective Tx module is 1.5RU tall. Two of the A8KFT3HD-1310 can plug into a 3RU host module and up to 24 Tx can be installed in the 19-inch high density chassis (A8KMF3).

The A8KFT3HD-1310 advanced design for low power consumption allows 2 Tx to operate in one 3RU slot. The characteristics of this Tx design exhibit excellent linearity with performance 51/-65/-70 for CNR/CSO/CTB and up to 15dBm optical power that make it ideal for HFC network.

Features

- CATV Bandwidth up to 1218 MHz
- Cooled DFB Laser Diode with Isolator
- 1310nm Optical Wavelength
- Optical Power Model Available up to 15dBm
- Docsis 3.1 Compliant
- High Density, 1.5RU
- AGC/MGC Selection
- CW/Video Mode Selection
- OMI Level Adjustments
- User Defined AGC Setting
- Hot Swappable
- Remote Control and Monitor Functions via HMS and SNMP
- -20dB Front Panel Testpoint

Performances

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>0</td>
<td>-</td>
<td>50</td>
<td>°C</td>
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<tr>
<td>Operating Bandwidth</td>
<td>54</td>
<td>-</td>
<td>1218</td>
<td>MHz</td>
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<tr>
<td>Optical Power</td>
<td>2</td>
<td>-</td>
<td>15</td>
<td>dBm</td>
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<tr>
<td>CNR (79ch NTSC + Digital to 1218MHz)</td>
<td>51</td>
<td>-</td>
<td>-</td>
<td>dB</td>
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<tr>
<td>CSO (79ch NTSC + Digital to 1218MHz)</td>
<td>-</td>
<td>-</td>
<td>-65</td>
<td>dBC</td>
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<tr>
<td>CTB (79ch NTSC + Digital to 1218MHz)</td>
<td>-</td>
<td>-</td>
<td>-70</td>
<td>dBC</td>
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</tbody>
</table>

(1) Rx Opt = 0dBm, Fiber = 20km, 79ch = 15dBmV/ch, Digital ch = -6dB from Analog

For more information on this and other products:
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