General Description

The GX62474 is a high-performance parallel low Vpi linear Mach-Zender Modulator (MZM) driver designed for 100G DP-QPSK long-haul optical transmitters. The GX62474 is a small form factor (SFF) with differential inputs and single ended outputs. The GX62474 is a surface mount device (SMD) packaged solution consisting of 4 x 32Gb/s broadband amplifiers, each capable of driving a linear output voltage of 6.5Vpp suitable for multilevel modulation applications.

Device Diagram

Applications

• 100Gb/s Coherent Systems using DP-QPSK
• 200Gb/s & 400Gb/s advanced multi-level modulation systems

Features

• Data rate up to 32Gb/s per channel for 100G/200G/400G DP-QPSK coherent applications
• Ultra low inter channel crosstalk
• Small form factor SMD
• No external RF supply chokes & RF decoupling required
• Internal RF input and output DC blocking
• Linear output voltage up to 6.5Vpp
• Gain control independent for each channel
• Integrated peak detector for each channel

Ordering Information

<table>
<thead>
<tr>
<th>Part</th>
<th>Temperature Range</th>
<th>Package</th>
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</thead>
<tbody>
<tr>
<td>GX62474-HIU</td>
<td>-5°C to +85°C</td>
<td>SMD 13mm x 19mm</td>
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For price, delivery schedules, and to place orders, please contact IDT: www.IDT.com/go/sales