Amplifier-Bypass Unit
GTV1246
X-Band / Ku-Band (10.7 – 12.75 GHz)

The amplifier bypass unit contains internal switching, allowing the user control of the amplifier to handle both high and low signal levels by bypassing the amplifier in the presence of large signals. Internal bypass switching extends the usable dynamic range.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Type No.</th>
<th>1200272</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of inputs</td>
<td>1</td>
</tr>
<tr>
<td>Number of outputs</td>
<td>1</td>
</tr>
<tr>
<td>Architecture</td>
<td>One amplifier path, one bypass path, switching: coaxial relay</td>
</tr>
<tr>
<td>Frequency range</td>
<td>10.7 – 12.75 GHz</td>
</tr>
</tbody>
</table>

**Amplifier path**

- Gain (fixed) (dB): 20 min., 21 typ., 22 max.
- Flatness (dB): ± 0.8 typ., ± 1.2 max.
- Noise Figure (dB): 7.5 typ., 8.5 max.
- OIP3 (dBm): 22 min., 24 typ.
- VSWR: 1.25:1 typ., 1.35:1 max.

**Bypass path**

- Gain (fixed) (dB): 22 min., 24 typ.
- Flatness (dB): ± 0.8 typ., ± 1.2 max.
- Noise Figure (dB): 7.5 typ., 8.5 max.
- OIP3 (dBm): 22 min., 24 typ.
- VSWR: 1.3:1 typ., 1.35:1 max.

**FEATURES**

- Bypass mode: amplifier input and output loaded to 50 Ω
- Isolator at input and output

**OPTIONS**

- Redundant power supply
- DC power supply
- Mixed power supply (AC and DC)
- Amplifier monitoring
- Customized filters
- Remote control

**APPLICATIONS**

The GTV1246 uses a low-noise amplifier and high-end coaxial switching elements and is designed for long-term installations. Its excellent gain flatness and noise figure makes it suitable for the following purposes:

- Satellite communications
- Direct broadcast satellite services
- Military radar applications
- Air traffic control
- Maritime vessel traffic control

**CONTACT**

3 avenue du Canada, bât. Zeta, 91940 Les Ulis, France  
+33 1 69 18 19 30  
www.eurosatcom.eu  
sales@eurosatcom.eu