C-Band GaN Solid State Power Amplifier

Features
- 1/3 mass and footprint compared to TWTA
- Saturated Power up to 70W using GaN device
- Low distortion performance using MELCO- original linearizer
- High efficiency
- Long life and lasting reliability

Heritage
- Commercial program (launch due 2015)

Block Diagram

Main Performances

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Operating Frequency Range</td>
<td>3.7 - 4.2 GHz</td>
</tr>
<tr>
<td>Nominal Gain</td>
<td>70 dB</td>
</tr>
<tr>
<td>Rated Output Power</td>
<td>70 W</td>
</tr>
<tr>
<td>Overdrive Capability</td>
<td>2 dBm</td>
</tr>
<tr>
<td>Gain Control</td>
<td>0 - 30 dB with 1 dB step</td>
</tr>
<tr>
<td>C/3IM</td>
<td>&gt; 20 dBc</td>
</tr>
<tr>
<td>Noise Power Ratio</td>
<td>&gt; 15 dB</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>165 W nom.</td>
</tr>
<tr>
<td>Dimension (L x W x H)</td>
<td>250 x 110 x 120 mm</td>
</tr>
<tr>
<td>Mass</td>
<td>&lt; 1.8 kg</td>
</tr>
</tbody>
</table>

*Non contractual information. Subject to change without notice.*

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MITSUBISHI ELECTRIC TOKKI SYSTEMS PROPRIETARY