PPH15X-20
GaAs TECHNOLOGY

Pushing GaAs pHEMT up to the limit

Your technology solution for linear power applications up to 45GHz

Unique technology performance on the market:
- Very high power density: 800mW/mm@3dBc
- High linearity: IMR3 of 56dBc@10dB backoff
- High PAE
- High gain
- BCB coating available for plastic molded packaging

This power technology includes two metal interconnect layers, precision TaN resistors, high value TiWSi resistors, MIM capacitors (high density and over via), air bridges and backside via holes.

Applications:
- Satcom
- Radiolinks
- Radar
- Optical links
- Instrumentation

Build your own solution with UMS
www.ums-rf.com
Examples of UMS state-of-the-art HPAs processed on PPH15X-20 technology:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>RF Bandwidth (GHz)</th>
<th>Gain (dB)</th>
<th>IP3 (dBm)</th>
<th>P-1dB OUT (dBm)</th>
<th>Sat. Output Power (dBm)</th>
<th>Bias (mA)</th>
<th>Bias (V)</th>
<th>Case</th>
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<tbody>
<tr>
<td>CHA6550-QXG</td>
<td>17-24</td>
<td>22</td>
<td>41</td>
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<td>34</td>
<td>1300</td>
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Products also available in bare die.