Microwave Power Modules

Overview

Stellants’ MPMs are super components that combine a solid-state driver amplifier with a micro-TWT and a power supply in one package that is much smaller, lighter and more efficient than a comparable TWTA or SSPA. Stellant manufactures both the TWT and power supply and offers a wide range of standard products as well as custom solutions.

Our MPMs are available in bands from 2 to 95 GHz with output powers from 40 to 200 watts. All Stellant MPMs are optimized for demanding defense applications that require small, lightweight, and environmentally-rugged, high-power microwave amplifiers.

Our MPMs are used in multiple UAV and manned airborne applications, as well as Space, Naval and Terrestrial systems.

Key Features

- High-reliability
- Small, lightweight
- High powered
## Microwave Power Modules

### Overview

#### Sampling Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Voltage</th>
<th>Frequency Range (GHz)</th>
<th>Output Power (Watts)</th>
<th>Prime Power (Watts)</th>
<th>Volume (Cubic Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1201</td>
<td>28 VDC</td>
<td>2 to 6</td>
<td>80</td>
<td>425</td>
<td>94</td>
</tr>
<tr>
<td>M1231</td>
<td>28 VDC</td>
<td>6 to 18</td>
<td>50 to 100</td>
<td>400</td>
<td>100</td>
</tr>
<tr>
<td>M1221</td>
<td>28 VDC</td>
<td>6 to 18</td>
<td>60 to 75</td>
<td>400</td>
<td>70</td>
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<tr>
<td>M1229</td>
<td>28 VDC</td>
<td>6 to 18</td>
<td>100</td>
<td>425</td>
<td>192</td>
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<tr>
<td>M1225</td>
<td>28 VDC</td>
<td>6 to 18</td>
<td>100 to 125</td>
<td>500</td>
<td>87</td>
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<tr>
<td>M1220</td>
<td>270 VDC</td>
<td>6 to 18</td>
<td>60</td>
<td>375</td>
<td>50</td>
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<tr>
<td>M1341</td>
<td>270 VDC</td>
<td>43.5 to 45.5</td>
<td>40</td>
<td>320</td>
<td>420</td>
</tr>
</tbody>
</table>

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**Stellant Systems** is a partner for civil, military, and commercial organizations whose missions seek to ensure a safe, aware, and connected world.

We are a premier manufacturer of critical spectrum and power amplification systems for defense, space, medical and industrial customers worldwide.

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