The **M-Series** linearizer is a set and forget frontend mini-system used in conjunction with a TWTA, MPM, or SSPA amplifier to provide superior HPA linearity performance. It provides RF gain, predistortion, output level control, and RF output power to drive an amplifier to saturation. It typically provides a 4X power increase with multicarrier traffic and advanced digital modulation.

The **M-Series** is available but not limited to all Satcom/Airborne uplink bands L thru Ka band.

### Typical Uplink Frequency Bands

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.850 to 6.725 GHz (C)</td>
<td>0.850 to 6.725 GHz</td>
</tr>
<tr>
<td>7.900 to 8.400 GHz (X)</td>
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### General Performance

- **Input Power Level for HPA Rated Power:** -30 to -5 dBm
- **Output Power for HPA Saturation:** > than +24 dBm

- **Gain:** > 35 dB (typ.)
- **Gain Flatness:** < ± 0.5 dB over any 500 MHz
- **Gain Slope:** < 0.02 dB/MHz
- **Gain Stability:** < ± 0.75 dB, -20 to +85°C

- **Static Phase Shift to HPA Rated Power:** < ± 5 degrees
- **AM/PM Conversion to HPA Rated Power:** ± 2 degrees/dB
- **Spurious/Noise:** < -135 dBw/4 KHz (max Gain)
- **Input and Output VSWR:** 1.5:1

### Control Interface

- **Input Gain Attenuator**
- **TTL MUTE Function**
- **O/P Power Detector**

### FEATURES/OPTIONS

- **Compact Package**
- **Temperature Compensation**
  - Extended Range -55 to +85°C
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**Contact us for additional custom features.**

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