# DMOS in STAC Package

<table>
<thead>
<tr>
<th>P/N</th>
<th>Freq (MHz)</th>
<th>Pout (W)</th>
<th>Gain (dB)</th>
<th>Efficiency (%)</th>
<th>Vdd (V)</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAC2932B</td>
<td>175</td>
<td>300</td>
<td>19</td>
<td>60</td>
<td>50</td>
<td>STAC244B2</td>
</tr>
<tr>
<td>STAC2942B</td>
<td>175</td>
<td>350</td>
<td>20</td>
<td>60</td>
<td>50</td>
<td>STAC244B2</td>
</tr>
<tr>
<td>STAC3932B</td>
<td>175</td>
<td>450</td>
<td>24</td>
<td>60</td>
<td>100</td>
<td>STAC244B2</td>
</tr>
</tbody>
</table>

*Cost effective and Improved Performance*
BOLTDOWN and FLANGELESS STAC PAC: INITIAL MODELS

NOTE: VIEW SHOWN BELOW REFLECTS THE MODEL FOR THE CLASSICAL “gemini” PUSH-PULL (WIDE LEAD PITCH).

STAC265B1

STAC244B2

STAC244F2

STAC Air cavity packages

Prepared By: RF Marketing NA
Advantages of STAC29XXX DMOS

- Compatible with existing designs
- Higher Power – STAC2942 & STAC3932 saturates at over 500 watts CW
- RF Gain 3-5 dB higher
- Thermal Resistance improvement over 20%
- Air Cavity package: No effect on max junction
- Eutectic die mount – most reliable
- Cost effective
- *Improved Performance at a lower cost!*
STAC Applications
ISM

- Lasers
- Solar Cells
- Semiconductor Equipment
- MRI
- Vacuum Deposition

Prepared By: RF Marketing NA
STAC Applications
FM Broadcast and HF/VHF Radio Transmitters