

## **MMA024AA Bonding Diagram**

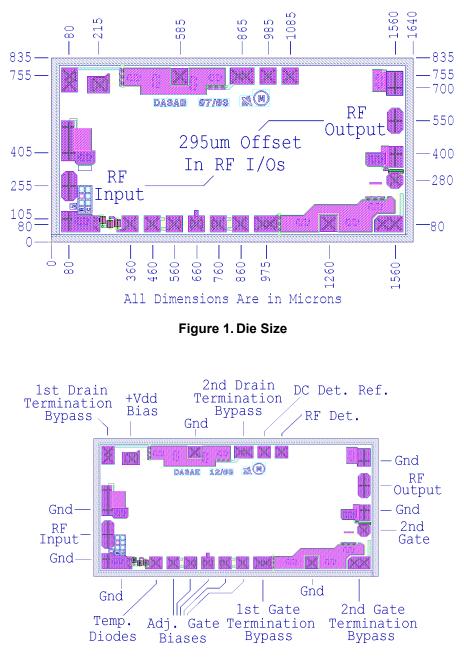


Figure 2. Pad Locations and Pad Descriptions

Chip size:  $1640x835\mu m$  (64.6x32.9mil) Chip size tolerance:  $\pm 5\mu m$  (0.2mil) Chip thickness:  $100 \pm 10\mu m$  ( $4 \pm 0.4mil$ ) Pad dimensions:  $80x80\mu m$  (3.1x3.1mil)



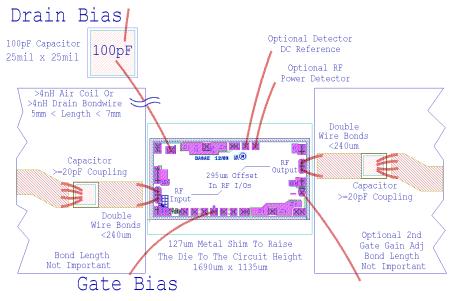
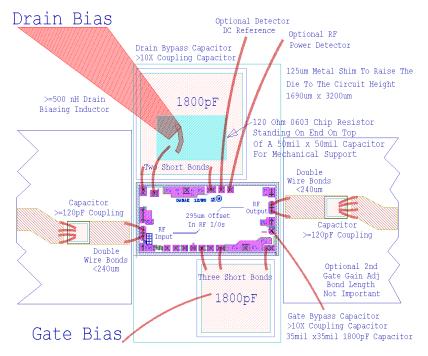


Figure 3.2 - 30GHz Bonding Diagram







## **Pick-up and Chip Handling**

This MMIC has exposed air bridges on the top surface. **Do not pick up chip with vacuum on the die center**; handle from edges or use a collet.

## **Thermal Heat Sinking**

To avoid damage and for optimum performance, you must observe the maximum channel temperature and ensure adequate heat sinking.

## **ESD Handling and Bonding**

This MMIC is ESD sensitive; preventive measures should be taken during handling, die attach, and bonding.

**Epoxy die attach is recommended**. Please review our application note MM-APP-0001 GaAs MMIC handling and die attach recommendations, on our website for more handling, die attach and bonding information.



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