

## **MMA025AA Bonding Diagram**

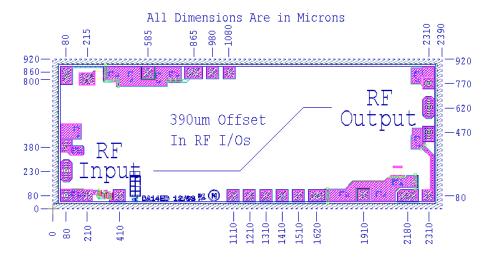


Figure 1. Die size

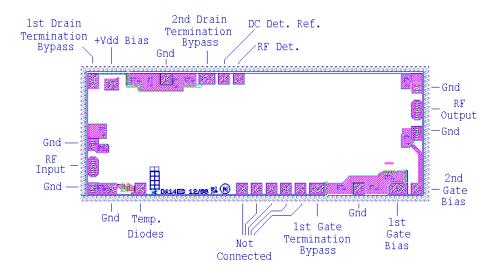


Figure 2. Pad Locations and Pad Descriptions

Chip size: 2390x920µm (94.1x36.2mil) Chip size tolerance: ±5µm (0.2mil) Chip thickness: 100 ±10µm (4 ±0.4mil) Pad dimensions: 80x80µm (3.1x3.1mil)



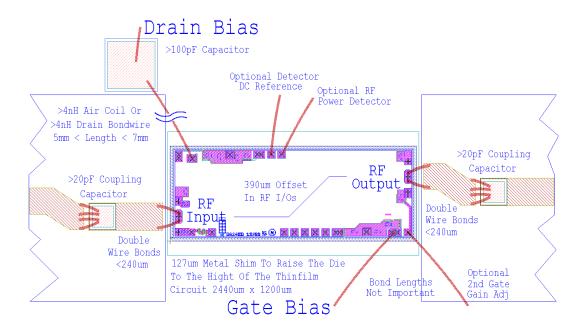


Figure 3.2 - 30GHz bonding diagram

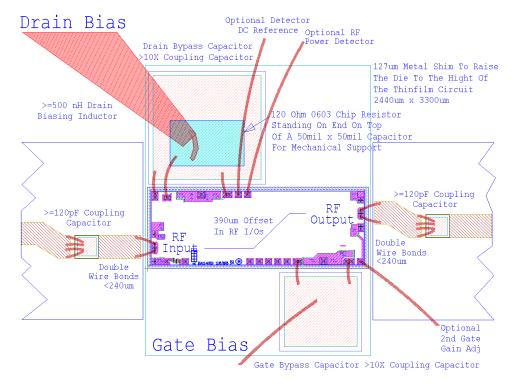


Figure 4. 40MHz - 30GHz bonding diagram



## 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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