

Speed up design to fab with GMIC for MMICs

Reproducible fabrication technology for producing high performance microwave components

GMIC (Glass Microwave Integrated Circuit) is a proprietary Spectrum Control process developed as an alternative to alumina substrates and custom MMICs (Monolithic Microwave Integrated Circuits). For applications where the volume for a single design does not justify the development of a custom MMIC, Spectrum Control's GMIC process offers significant advantages in terms of rapid turnaround and consistent, repeatable products.

Decades of RF, MW & MMW Innovation

The core value of the GMIC process stems from the small number of wire bonds needed. The reduction in the number of components and bonds required in the GMIC portion of the product leads to significant improvements in both reliability and repeatability. It also means faster time to market.

***A consistent, reliable process that rapid
turnaround for a wide range of technologies***

GMIC has been in continued production for the past 25 years. It is a mature process with more than half a million circuits produced across a wide range of applications.



Speed your design to fab time with GMIC from Spectrum Control



The GMIC process at Spectrum Control Milton Keynes

Using the GMIC process, Spectrum Control is able to save its customers on time, plus produce a highly repeatable, consistent product.

Additional GMIC Advantages

- Extremely wide frequency range up to and beyond 100 GHz, making it particularly suitable as an enabling technology for cost-effective mmW applications.
- Repeatable performance due to the integrated passive element design.
- Supports advances in future semi-conductor technology.
- Integrates passive elements to reduce component count and improve reliability.
- Cost-effective for commercial, military and space applications.