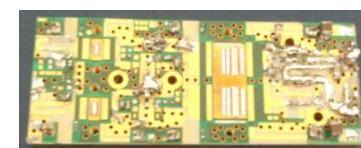


Technologies overview

**Proprietary LDMOS
Technology**
5-1000+W, 12-50V,
10MHz~2GHz output
Up to 4GHz driver

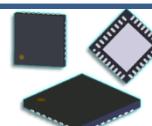


**iModule/MCM
(Direct chip on PCB
bonding)**

**Ceramic Package
(Devices/IC
/Module)**



**Plastic Package
(Device/IC)**



GaN Custom Design:
5~1000W, 28~50V,
>2 GHz, board band,
high efficiency

**GaN/LDMOS/GaAs/VMOS
Device and Module**

Custom Design Products

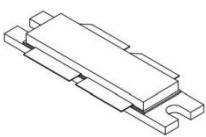
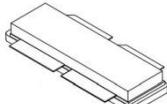
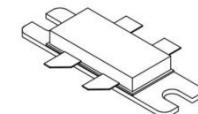
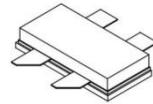
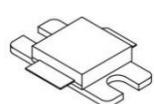
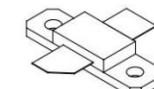
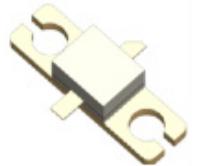
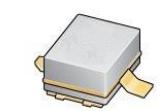
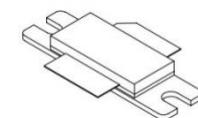
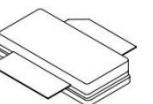
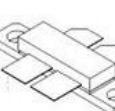
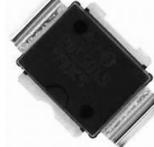
Bare Die and MOSCAP

IP Licensing

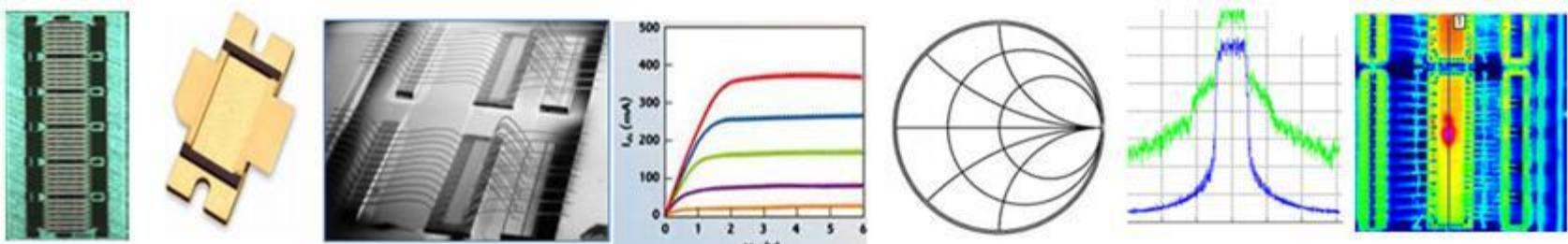
**GaAs and VDMOS
Discrete + IC Products**

Innogration standard package

*Additional functionality (bias leads/gull wing) upon request

							
D4E	D4	B4	B4E	A2E	A2	GX/GXE-B	H(sot89)
							
MME	MM	B2E	B2	E2	LB	SP	QFN

**R&D, product design,
production flow**



- **Design**

- Active, passive and MMIC die
- Parasitic extraction
- RF and EM simulation
- Application oriented internal matching topologies
- Custom design packaging mechanics and assembly process
- iModule™ and MCM sub-system design

- **Characterization**

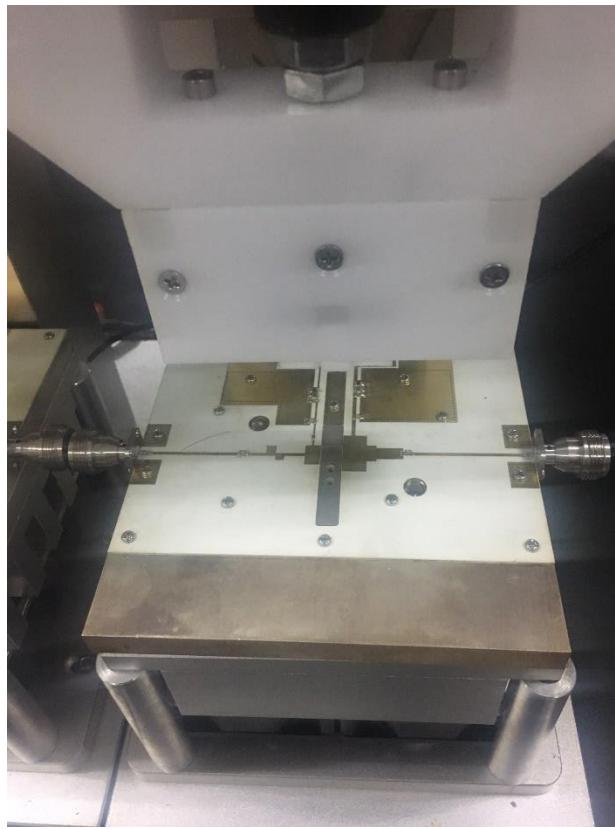
- IV and DC Parameters
- Load-Pull for design optimization
- Device modeling
- Ruggedness and stability
- Thermal analysis

- **Complete release circle**

- MPW to SPW
- DOE for performance and consistency
- Batch to batch yield verification
- Full reliability test
- Production board development
- Pre-production verification
- Product release

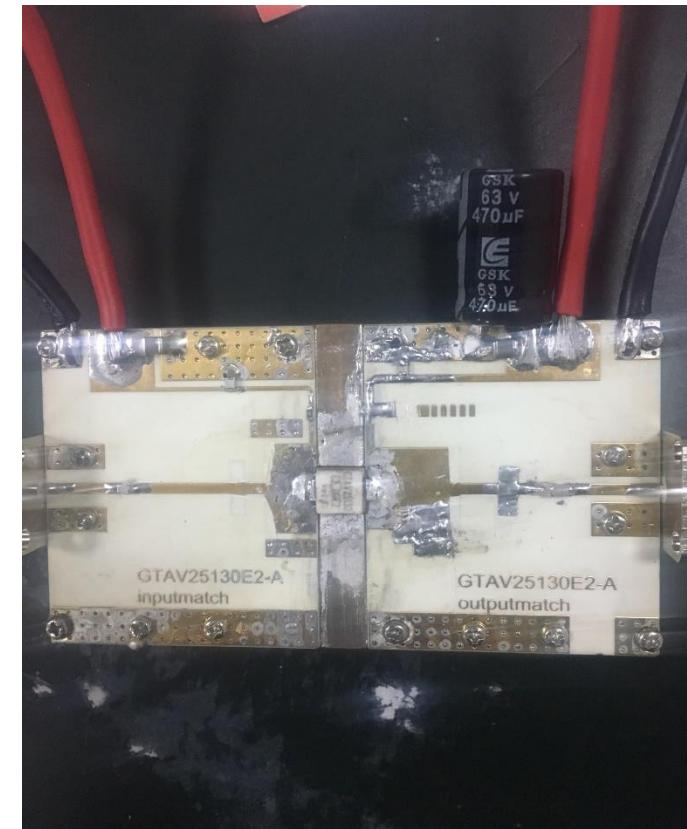
- **Application Support**

- Class AB/ Class C/Class F/Class J
- Wave shaping and harmonic tuning
- Linearity enhancement by DPD/APD
- Doherty (sym, asym, wideband)
- Ultra wide band and Multi Octave
- High power CW
- Mininature design



Production circuit

- Consistency validation
- Device clamped down
- In principle, only Microstrip match layout, no capacitors



Application circuit

- Optimized for performance only
- Device soldered
- No limitation on layout and BOM

Assembly

Assembly Area

>600M²

Class 10000



**Quality, Reliability,
Consistency**

Innogration Technologies is committed to providing quality products and services that meet or exceed customers' requirements by:

- Fully understanding customers' requirements and expectations
- Providing products utilizing proven designs and manufacturing processes
- Developing a highly trained workforce that is motivated, empowered and fully accountable
- Establishing strong relationships with world-class suppliers
- Continually improving the efficiency and effectiveness of business processes and quality management system