

1011GN

L-Band GaN-on-SiC Transistors

New High Efficiency and Power Density 125 W and 250 W L-Band GaN Transistor Products for 1030/1090 MHz L-Band Pulsed Avionics Transmitters

Microsemi has launched two versatile and reliable GaN-on-SiC transistors that represent the best value design choice for a civilian or military, ground-based or airborne IFF interrogators, mode-S and mode-S ELM transponders, and TCAS power transmitter applications.

The rugged 1011GN-125E/EL/EP driver transistor products deliver 125 W minimum pulsed output power with 18.7 dB typical power gain at 1030 MHz and 1090 MHz under pulsing formats from 32 μ s pulse width, 2% duty cycle to 1 ms pulse width, 10% duty cycle.

Used as either a driver or output stage, the versatile 1011GN-250E/EL/EP power transistor products deliver 250 W minimum pulsed output power with 20.5 dB typical power gain at 1030 MHz and 1090 MHz under pulsing formats from 32 μ s pulse width, 2% duty cycle to 1 ms pulse width, 10% duty cycle.

The 1011GN-125EP and 1011GN-250EP products are compact 1.200" x 0.600" x "0.150" 50 Ω IN/OUT plug-and-play pallets.

Each of the transistor products are hermetically sealed and are internally pre-matched for optimal performance. All gold metallization and eutectic die attach are utilized to provide the highest reliability and superior ruggedness.

The 1011GN-120E/EL and 1011GN-250E/EL GaN transistor products are available in the 55-QQ and 55-QQP case styles.

The 1011GN-125EP is available in the 55-78025 case style.

The 1011GN-250EP is available in the 55-78026 case style.

For product sales or technical information contact sales.support@microsemi.com

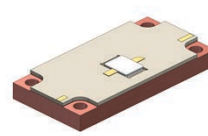
Microsemi offers a complete family of continuous wave (CW) and pulsed RF and Microwave Silicon Bipolar Junction transistor and GaN-on-SiC HEMT transistor products up to 1400 W to provide system design solutions for HF, VHF, UHF, and L/S/C-band primary and secondary radar, communications, Industrial-Scientific-Medical (ISM), and Space applications.



1011GN-125E/EL
0.160" x 0.550"
55-QQ



1011GN-250E/EL
0.160" x 0.230"
55-QQP



1011GN-125EP/250EP
0.600" x 1.200" x 0.150"
55-78025/26

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Microsemi Corporate Headquarters
One Enterprise, Aliso Viejo, CA 92656 USA
Within the USA: +1 (800) 713-4113
Outside the USA: +1 (949) 380-6100
Sales: +1 (949) 380-6136
Fax: +1 (949) 215-4996
email: sales.support@microsemi.com
www.microsemi.com

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