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MACOM's 500W  
GaN-on-Si Power  
Transistor MACOM

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talks about their  
latest GaN-on-  
Silicon device

**MACOM - GaN on  
Silicon Product  
Reliability**

**MACOM GaN on  
Silicon RF Energy  
Toolkit MACOM  
GaN on Silicon  
RF Energy**

**Toolkit MACOM  
GaN on Si ISM  
product GaN**

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**Systems - Fast  
switching with  
GaN-on-Si** Design

~~Example: OMMIC  
GaN on Si for PAs~~

---

MACOM GaN

Technology -

IMS2015 Is gallium  
nitride the silicon  
of the future?

---

GaN vs MOSFET *Will  
gallium nitride  
electronics change  
the world?* |

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*Upscaled From*  
Sand to Silicon: the  
Making of a Chip |  
Intel Future of  
Power Electronics  
~~GaN MOSFET~~ **APEC**  
**2019: How GaN**  
**transistors**  
**shrink down**  
**power circuits**  
~~GaN Advanced~~  
~~Learning 1 - What~~  
~~is GaN?~~  
~~Transistors, How do~~

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~~they work? SiC  
MOSFET datasheet  
and comparison to  
IGBT Smartphone  
Fast Charging just  
got FASTER. GaN  
Power devices -  
Physics of GaN  
devices How GaN  
FETs reduce circuit  
size How to GaN 02  
—Building a GaN  
Transistor MACOM  
in conversation~~



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*with Verizon What  
is Gallium Nitride  
(GaN) ? GaN in  
Electronics  
Monolithic  
Microwave  
Integrated Circuits:  
Design Strategies  
for First-time  
Success*

~~Transphorm shows  
their 1,200-V  
Gallium Nitride on  
Silicon power~~

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~~devices at PCIM  
2013 Frequency  
Matters, Feb 9 -  
Feb 5G FWA  
architectures and  
MACOM GaN  
Update~~

**Triangulation  
319: Our Friend  
Gallium Nitride  
High Efficiency  
GaN Device for  
RF Energy  
Applications -**

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## **MRF24G300HS**

*How gallium nitride  
FETs stack up  
against silicon-  
carbide FETs Gan  
On Si Macom*

At MACOM we offer  
a broad range of  
RF power  
semiconductor  
products as  
discrete devices,  
modules, and  
pallets designed to

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operate from DC to 6 GHz. Our high power amplifiers are ideal for aerospace, defense, military communications, civil avionics, 5G networks, radar, broadcast, industrial, scientific, and medical applications. Our

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product portfolio leverages MACOM's more than 60-year heritage of providing both standard and custom solutions using bipolar, MOSFET, and GaN technologies to ...

*MACOM Gallium Nitride (GaN)*

*Page 13/46*

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RF Power Amplifier  
- GaN. MACOM GaN  
portfolio of RF  
power amplifier  
products is based  
on GaN-on-Si and  
GaN-on-SiC  
technologies. Our  
MACOM PURE  
CARBIDE series of  
GaN-on-SiC power  
amplifiers is our  
latest addition and  
offers high

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performance for the most demanding applications. Our expanding GaN portfolio exhibits best in class RF performance with respect to power, gain and efficiency.

*GaN on Si RF Power Transistors -  
MACOM*

*Page 15/46*

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MACOM Introduces  
New GaN-on-Silicon  
Carbide (SiC)  
Power Amplifier  
Product Line The  
MAPC-A1000 is a  
high power GaN-on-  
SiC amplifier  
designed to  
operate between  
30 MHz and 2.7  
GHz and is housed  
in a... The MAPC-  
A1100 is a high



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power GaN-on-SiC  
amplifier designed  
to operate up to  
3.5 GHz. The  
device is ...

*MACOM - MACOM  
Introduces New  
GaN-on-Silicon  
Carbide (SiC ...  
MACOM and  
Infineon have  
settled their legal  
fight over*

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ownership of GaN on Si intellectual property (IP). In an unexpected conclusion, MACOM CEO John Croteau said Infineon has assigned ownership of the disputed patents to MACOM for all fields of use, and MACOM has licensed the

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patents back to  
Infineon, although  
Infineon is  
restricted from  
selling production  
quantities of RF  
GaN on Si base  
station products  
until 2021.

*MACOM and  
Infineon Settle GaN  
on Si Lawsuit |  
2018-11-14 ...*

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MACOM and  
STMicroelectronics  
to Bring GaN on  
Silicon to  
Mainstream RF  
Markets and  
Applications.  
Combines  
manufacturing  
scale, supply  
security, and surge  
capacity from ST  
with MACOM's GaN  
on Silicon RF power

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products to address mainstream consumer, automotive, and wireless basestation programs. Anticipated breakthrough cost structure and power density of GaN on Silicon would enable

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4G/LTE and  
massive MIMO 5G  
antennas.

*MACOM and  
STMicroelectronics  
to Bring GaN on  
Silicon to ...*

Yole's Business  
Unit Manager,  
Pierric Gueguen,  
explains, "GaN-on-  
Si technology has  
resulted in

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numerous assets  
for many  
applications,  
including RF and  
power electronics,  
and GaN-on-Si  
players have  
latched onto this  
potential. It is  
entirely natural for  
a bridge to form  
between the RF  
and power  
electronics

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markets.

*GAN ON SI VS. GAN  
ON SIC -*

*MACOM/INFINEON  
TECHNOLOGIES ...*

GaN on Silicon  
General Purpose  
Amplifier, 20 -

1000 MHz, 28 V,  
12.5 W: The

NPA1006 is a GaN  
on silicon amplifier  
optimized for 20 -



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1000 MHz operation. This amplifier has been designed for saturated and linear operation with output levels to 12.5 W (41 dBm) assembled in a lead-free 6 x 5 mm 8-lead PDFN plastic package. The NPA1006 is ideally suited for general

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purpose  
narrowband to  
broadband ...

*MACOM - Product  
Detail - NPA1006*

The NPA1003QA is  
a GaN on silicon  
power amplifier  
optimized for 20 -  
1500 MHz  
operation. This  
amplifier has been  
designed for

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saturated and  
linear operation  
with output levels  
to 5 W (37 dBm)  
assembled in a  
lead-free 4 mm  
16-lead QFN plastic  
package. 1,2

*NPA1003QA RFIN /  
VG 3 10 RFOUT /  
VD IN G GaN on ... -  
MACOM  
MAPC-A1500*

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MACOM PURE  
CARBIDE™ GaN-on-  
SiC 2.6 kW  
Amplifier .

Features: Supports  
pulsed operation  
with output power  
levels of 2600 W  
(64.1 dBm) at 65V  
and 2000 W (63.0  
dBm) at 50V

*MACOM - Partners  
from RF to Light*

*Page 28/46*

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GaN on SiC GaN on Si . Our exploration specialists acutely ascertain the significant aspects of the global GaN Transistor market report. It also provides an in-depth valuation in regards to the future advancements relying on the past

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data and present  
circumstance of  
GaN Transistor  
market situation.

*GaN Transistor  
Market Global  
Industry Size,  
Growth ...*

The MAPC-A1100 is  
a high power GaN-  
on-SiC amplifier  
designed to  
operate up to 3.5

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GHz. The device is capable of supporting both CW and pulsed operations with output power levels of at least 65 W...

*MACOM Introduces  
New GaN-on-Silicon  
Carbide (SiC)  
Power ...*

MACOM Announces

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GaN-on-Si MMIC  
Power Amplifiers  
for Massive MIMO  
5G High-  
performance  
MAGM Series  
combines MACOM's  
established  
industry leadership  
in GaN-on-Si and  
MMIC technologies  
New MAGM-103436  
-040A0P delivers  
wideband



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performance and superior efficiency compared to LDMOS-based offerings, at comparable cost structures

*MACOM Announces  
GaN-on-Si MMIC  
Power Amplifiers  
for ...*

RF Power Amplifier  
- GaN. MACOM GaN

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portfolio of RF power amplifier products is based on GaN-on-Si and GaN-on-SiC technologies. Our MACOM PURE CARBIDE series of GaN-on-SiC power amplifiers is our latest addition and offers high performance for the most

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demanding applications. Our expanding GaN portfolio exhibits best in class RF performance with respect to power, gain and efficiency. GaN on Si RF Power Transistors - MACOM

*Gan On Si Macom |  
calendar.pridesour  
Page 35/46*

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ce

At the virtual International Microwave Symposium (IMS), Macom has announced a new GaN-on-SiC power amplifier product line, which it is branding Macom Pure Carbide. The company also announced the

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introduction of the first two new products in the product line, the MAPC-A1000 and the MAPC-A1100.

*Macom launches GaN-on-SiC Power Amp range - News*  
Infineon claims that MACOM was violating a license agreement for use

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of Infineon's GaN on Si patents, which led Infineon to terminate the license in March 2016. In April, MACOM filed suit, claiming Infineon was violating the license agreement.

*Infineon Responds  
to MACOM's GaN  
on Si Lawsuit |*

*Page 38/46*

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2016-12 ...

LOWELL,  
Mass.--(BUSINESS  
WIRE)--Jan. 22,  
2019-- MACOM  
Technology  
Solutions Inc.  
("MACOM"), a  
leading supplier of  
semiconductor  
solutions, has  
expanded its GaN-  
on-Si power  
amplifier portfolio

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with the  
introduction of its  
new  
MAMG-100227-010  
broadband PA  
module optimized  
for use in land  
mobile radio (LMR)  
systems, wireless  
public safety  
communications  
and military  
tactical  
communications



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and electronic countermeasures (ECM). Combining the design efficiencies of a fully-matched (50  $\Omega$ ), two ...

*MACOM Introduces  
Broadband,  
Multistage GaN-on-Si Power ...*

The MAMG-100227-010C0L is a

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broadband two-stage GaN-on-Si hybrid power amplifier module in an air-cavity laminate package. A gold-plated copper heat sink is attached to the bottom side of the laminate substrate. The package can be accessed from the top or the

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bottom allowing for  
“live bug” or “dead  
bug” mounting.

*MAMG-100227-010*  
*COL - MACOM*

Discover the  
MACOM wideband  
RF GaN Power  
Amplifier for  
general purpose,  
optimized for  
20–2700 MHz  
operation. The

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Radio-Frequency (RF) GaN market is experiencing an impressive growth.

Yole

Développement expects that the overall GaN RF market will reach \$2B by 2024, driven by two main applications: telecom infrastructure and

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*MACOM NPA1008  
RF Power Amplifier  
with GaN-on-Si  
HEMT ...*

Listen to Gan-Ga  
now: [https://ffm.to/  
gan-ga](https://ffm.to/gan-ga) Listen to  
Bryant Myers'  
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