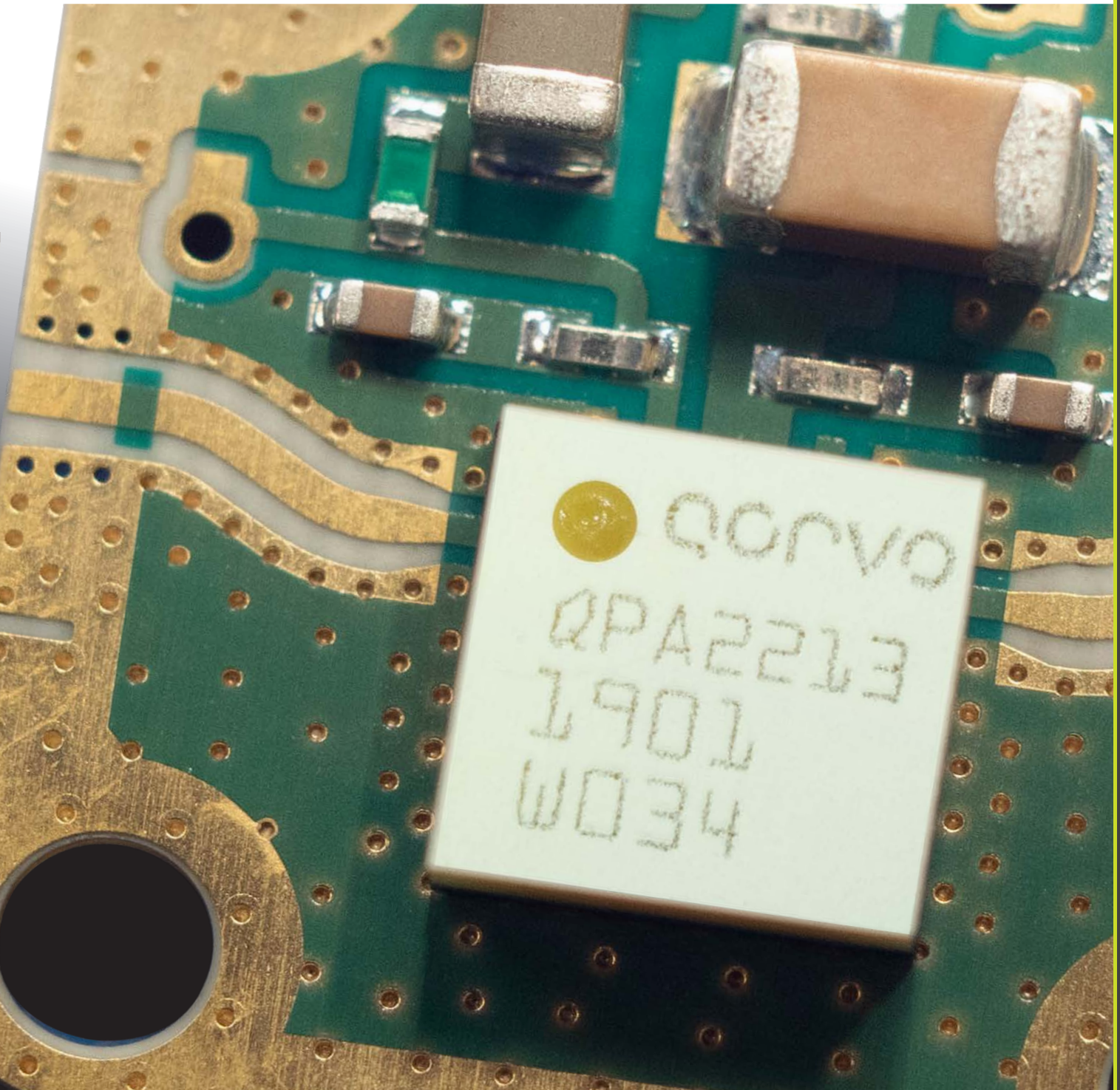


SPOTLIGHT ON

QORVO.

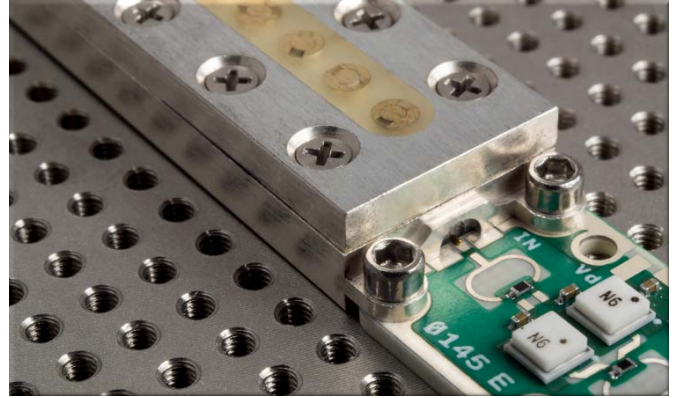


## Modular Building Block System

Over 70 Qorvo X-MWblock drop-in components covering many RF device categories including:

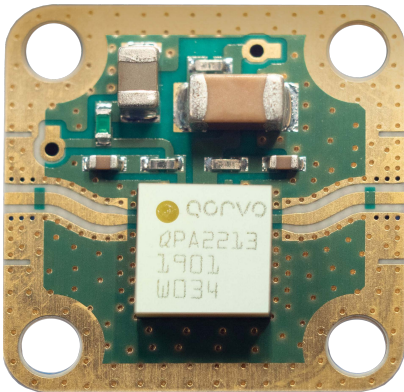
- Amplifiers
- Filters
- Limiters
- Multipliers
- Switches
- Phase Shifters

Drop-in and connectorized options  
Bias and control boards available

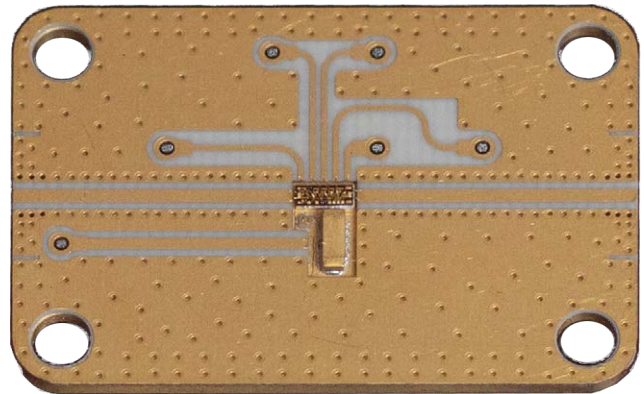


**Rapid Prototyping with Modular Blocks**  
Combined Qorvo amplifiers, filters, and switches to build production ready assemblies

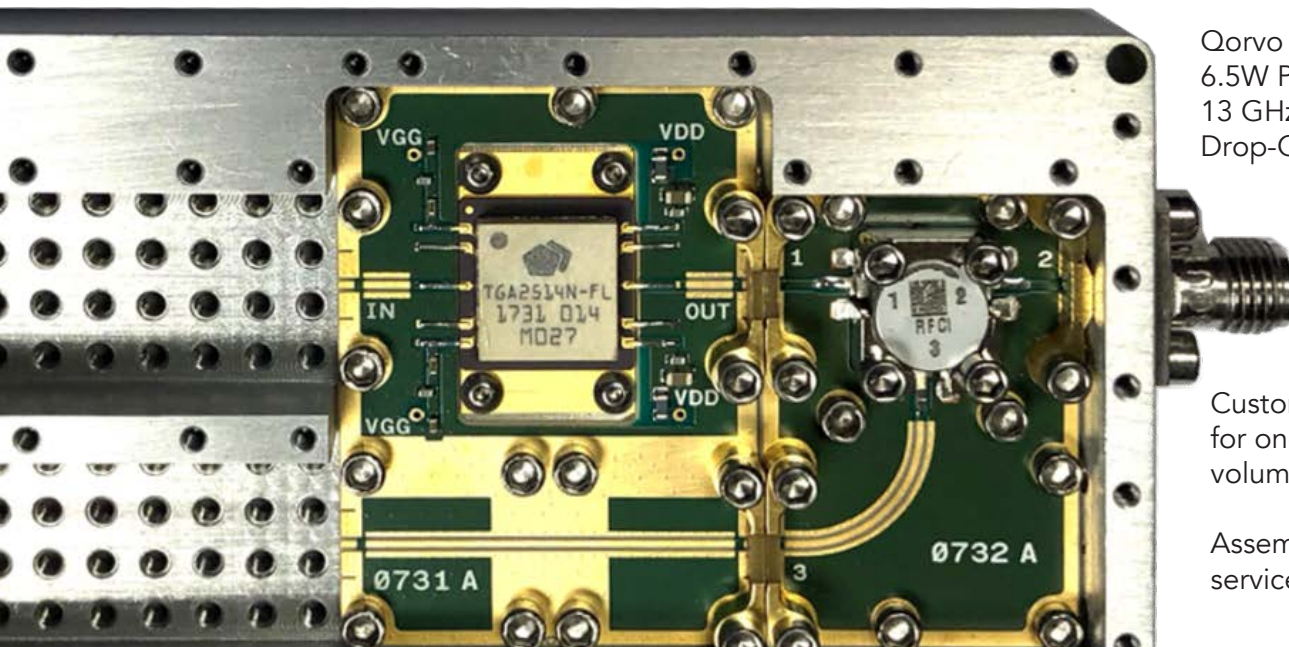
## Drop-in Components



Qorvo QPA2213  
2W Power Amplifier  
2 GHz to 20 GHz  
Surface Mount



Qorvo TGP2102  
5 bit, 5° RMS Phase Shifter  
32 GHz to 37 GHz  
Bare DIE (Optional Cover)




Qorvo TGA2514N-FL  
6.5W Power Amplifier  
13 GHz to 16 GHz  
Drop-On Flange

Custom Housing  
for one-off field trials and  
volume production

Assembly and test data  
services available

# X-MWblock Availability

Qorvo X-MWblocks featured at qorvo.com and xmicrowave.com

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**Recently Visited**

- X [TGA2514N-FL](#): 13 - 16 GHz Power Amplifier
- X [QPA2213](#): 2 - 20 GHz 2 Watt GaN Amplifier

## NBB-312

### DC - 12 GHz Cascadable Broadband GaAs MMIC Amplifier

[Production >](#)



Modular by Design  
X-MWblocks®

[Learn More >](#)



 [Product Data Sheet](#)  
10/14/2013

#### Key Features

- Reliable, Low-Cost HBT Design 12.9dB Gain
- High P1dB of +14.9dBm at 6GHz.
- Single Power Supply Operation
- 50 ohm I/O Matched for High Frequency Use

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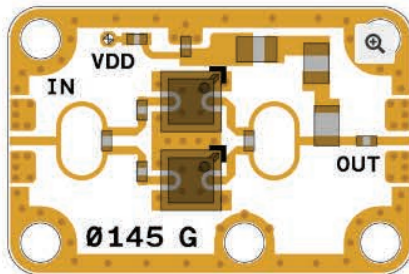
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RF and Microwave Solutions to 67 GHz

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## Amplifiers

### XM-A2D7-0604D

NBB-312

\$150

Amplifier, NBB-312 [PCB: 145] F=5.5G-10G G=10.6  
P1dB=15.6 IP3=29 NF=4.9 Recommended Bias  
Controller: XM-A2K1-0404D

1

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[NBB-312 Datasheet](#)

#### Drop-In Characteristics

|            |      |
|------------|------|
| Gain       | 10.6 |
| Lfreq      | 40   |
| Hfreq      | 2700 |
| NF (dB)    | 4.9  |
| P1dB (dBm) | 14   |
| Ip3        | 24   |

# X-Microwave Design System

Design On the Grid using a wide range of Mini-Circuits components including amplifiers, mixers, filters, and more.

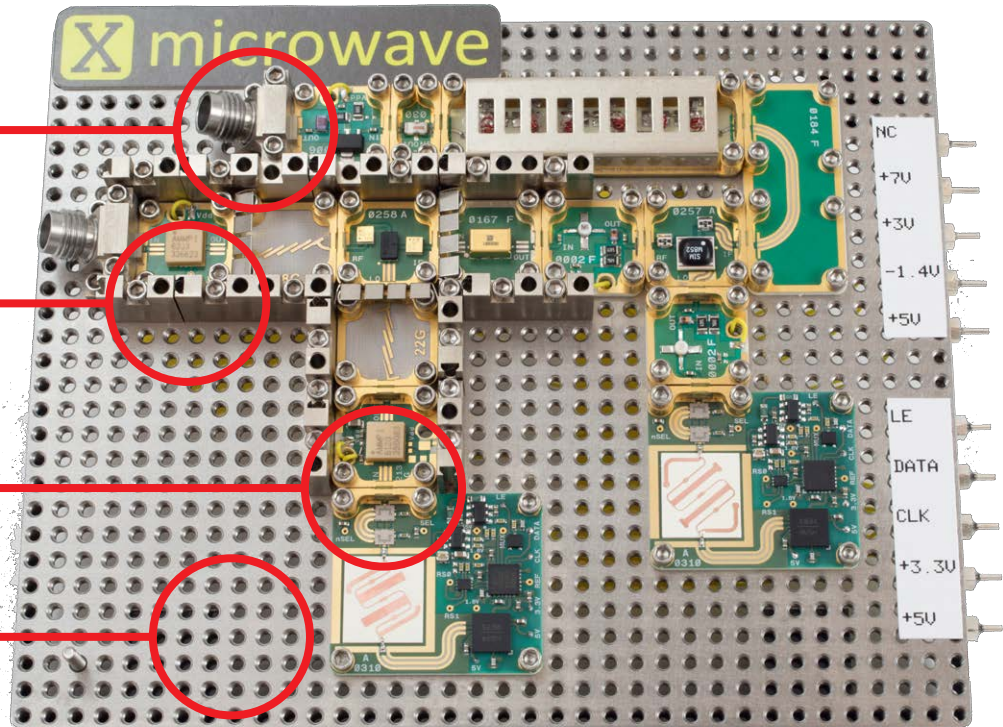
67 GHz Probe

Modular Walls and Lids

Solderless Interconnect

Grid Based Design

0.135" x 0.135"



## X microwave

Optimizing the RF and microwave design process from DC to 67 GHz by seamlessly merging simulation, prototyping and production.



Communications



Aerospace



Defense

Visit [xmicrowave.com](http://xmicrowave.com)  
[sales@xmicrowave.com](mailto:sales@xmicrowave.com)  
+1 (512) 355-7115

X-Microwave, LLC  
14050 Summit Drive  
Suite 113B  
Austin, TX 78728