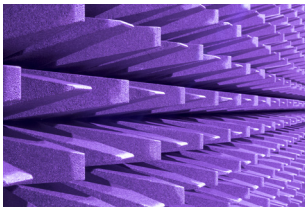
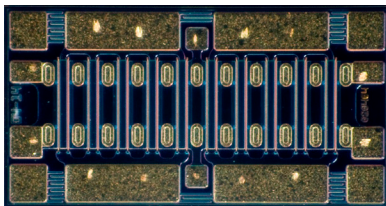


# Broadband, High-Power RF Products

GaN HEMT Packaged Transistors, Die, and MMICs for Extremely Wideband Applications



GaN HEMT devices are ideal for ultra-broadband amplifier applications. The intrinsic properties of high-power density, low parasitic, and high  $F_T$ , allow for multi-octave to instantaneous bandwidth amplifiers. This family of products consists of packaged, unmatched discrete transistors from output powers 6 W to 200 W (CW) at 28 V, and packaged 50-ohm MMIC amplifiers operating at 28 V, 40 V or 50 V suitable from DC - 18 GHz applications. This portfolio also includes bare discrete die and bare MMIC die designed for hybrid amplifiers and multi-function transmit/receive modules.



## BENEFITS

- High reliability
- Higher efficiency
- Reduction of heat-sink requirements
- SiC substrate provides the best thermal performance

## FEATURES

- GaN-on-SiC technology
- Wideband performance
- High power density
- High-frequency operation
- High breakdown voltage

**PRODUCT SELECTOR PORTFOLIO**

Output Power	Operating Frequency	Bare Die	Packaged GaN Transistor		Packaged GaN MMIC Power Amplifier
2 W	DC - 6 GHz	CMPA0060002D	-		CMPA0060002F
6 W	DC - 6.0 GHz	CGH60008D	CGH40006P/S		-
6 W	DC - 18.0 GHz	CGHV1J006D	CGHV1F006S		-
10 W	DC - 6.0 GHz	CGH60015D	CGH40010F/P		-
10 W	DC - 8.0 GHz	CG2H80015D	CG2H40015F/P		-
25 W	DC - 6.0 GHz	CGH60030D CMPA0060025D	28 V	50 V	CMPA0060025F
			CGH40025F/P CGH27030F/P CGH27030S	CGHV40030F/P CGHV27030S	
25 W	DC - 8.0 GHz	CG2H80030D	CG2H40025F/P		-
25 W	DC - 18.0 GHz	CGHV1J025D	CGHV1F025S		-
25 W	2.0 - 6.0 GHz	CMPA2060025D	28 V	50 V	CMPA2060025F
			CGH40025F/P CGH27030F/P CGH27030S	CGHV40030F/P CGHV27030S	
25 W	2.5 - 6.0 GHz	CMPA2560025D	28 V	50 V	CMPA2560025F
			CGH40025F/P CGH27030F/P CGH27030S	CGHV40030F/P CGHV27030S	
25 W	6.0 - 12.0 GHz	CMPA601C025D	-		CMPA601C025F
25 W	6.0 - 18.0 GHz	CMPA601J025D	-		-
35 W	DC - 4.0 GHz	-	CGH40035F		-
45 W	DC - 4.0 GHz	28 V	50 V	28 V	50 V
		CGH60060D CG2H80060D	CGHV60040D	CGH40045F/P CG2H40045F/P	CGHV40050F/P
50 W	DC - 6 GHz	28 V	50 V	28 V	50 V
		CGH60060D	CGHV60040D	CGH40045F/P	CGHV40050F, CGHV27060MP
60 W	DC - 18.0 GHz	CGHV1J070D	-		-
75 W	DC - 4.0 GHz	CGHV60075D5	-		-
90 W	DC - 3.0 GHz	-	CGH40090PP		-
100 W	DC - 3.0 GHz	CGHV60170D	CGHV40100F/P		-
120 W	DC - 3.0 GHz	CGH60120D	CGH40120F/P		-
170 W	DC - 3.0 GHz	CG2H50170D	-		-
180 W	DC - 2.5 GHz	-	CGH40180PP		-
200 W	DC - 2.5 GHz	-	CG2H40200PP		-
320 W	DC - 4.0 GHz	CGHV40320D	-		-

**Powering More. Consuming Less.**