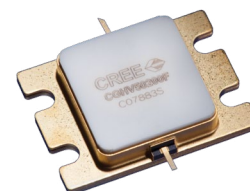


RF Communication Products

GaN HEMT Transistors for Frequency-Agile, Software-Defined Radios, C-OFDM Data-links and Satcom Applications



Wolfspeed's GaN HEMT devices are ideally suited for a host of communications applications. They are perfect for applications seeking to improve bandwidth, efficiency, frequency of operation, or for transmitters challenged to reduce size and weight. These features enable significant savings on operating expenses.



BENEFITS

- High reliability
- Higher efficiency
- Reduction of heat-sink requirements
- SiC substrate provides the best thermal performance
- Highly correctable with Digital Pre-Distortion

FEATURES

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

PRODUCT SELECTOR PORTFOLIO - PACKAGED (DC - 3.8 GHz)

Output Power	DC - 2 GHz		1.8 - 2.3 GHz		2.3 - 2.7 GHz		2.7 - 3.8 GHz	
> 6 W	28V CGH40006S	40V CGHV1F006S	28V CGH40006S	40V CGHV1F006S	28V CGH40006S	40V CGHV1F006S	28V CGH40006S	40V CGHV1F006S
>15 W	28V CGH27015F/P	50V CGHV27015S	28V CGH27015F/P	50V CGHV27015S	28V CGH27015F/P	50V CGHV27015S	28V CGH35015F/P	50V CGHV27015S
> 30 W	28V CGH27030F/P	50V CGHV40030 CGHV27030S CGHV1F025S	28V CGH27030F/P	50V CGHV40030 CGHV27030S CGHV1F025S	28V CGH27030F/P	50V CGHV40030 CGHV27030S CGHV1F025S	28V CGH35030F/P	50V CGHV40030 CGHV27030S CGHV1F025S
> 60 W	28 V CGH27060F CG2H30070F	50 V CGHV27060MP	28 V CGH27060F CG2H30070F	50 V CGHV27060MP	28 V CGH27060F CG2H30070F	50 V CGHV27060MP	28 V CGH35060F	50 V CGHV35060MP
>100 W	CGHV40100F/P		CGHV22100F/P, CGHV40100F/P		CGHV27100F/P, CGHV40100F/P			
> 200 W	CGHV40200PP		CGHV22200F/P		CGHV27200F/P			
> 240 W			CGH21240F					

PRODUCT SELECTOR PORTFOLIO - PACKAGED (4.4 - 14.5 GHz)

Output Power	4.4 - 5.0 GHz		4.9 - 5.8 GHz		5.8 - 7.2 GHz		7.9 - 8.4 GHz	13.75 - 14.5 GHz	
> 6 W	28 V CGH40006S	40 V CGHV1F006S	28 V CGH40006S	40 V CGHV1F006S	CGHV1F006S		CGHV1F006S	CGHV1F006S	
>15 W	28V CGH55015F1/P1	50V CGHV27015S	28V CGH55015F1/P1	50V CGHV27015S	-		-	-	
> 30 W	28V CGH55030F1/P1	50V CGHV40030 CGHV27030S CGHV1F025S	28V CGH55030F1/P1	50V CGHV40030 CGHV27030S CGHV1F025S	28V CMPA5585025F CMPA5585030F	40V CGHV1F025S	CGHV1F025S	28V CMPA1D1E025F	40V CGHV1F025S
> 50 W			-		-		CGHV96050F1	-	
> 70 W	CGHV59070F/P		CGHV59070F/P		-		-	-	
>100 W	CGHV50200F								

PRODUCT SELECTOR PORTFOLIO - BARE DIE

Output Power	L-Band	S-Band	C-Band	X-Band	Ku-Band	Device Types
> 6 W	CGH60008D CGHV1J006D	CGH60008D CGHV1J006D	CGH60008D CGHV1J006D	CGHV1J006D	CGHV1J006D	GaN HEMTs
>10 W	CGH60015D	CGH60015D	CGH60015D			GaN HEMTs
> 25 W	CGH60030D, CG2H80030D CGHV60040D CGHV1J025D	CGH60030D, CG2H80030D CGHV60040D CGHV1J025D	CGH60030D, CG2H80030D CGHV60040D CGHV1J025D CMPA5585030D	CGHV1J025D CMPA801D025D CMPA601C025D	CGHV1J025D CMPA1D1E030D	GaN HEMTs & MMICs
> 60 W	CGH60060D, CG2H80060D CGHV1J070D CGHV60075D	CGH60060D, CG2H80060D CGHV1J070D CGHV60075D CMPA2735075D	CGH60060D, CG2H80060D CGHV1J070D CGHV60075D	CGHV1J070D	CMPA1C1D060D	GaN HEMTs & MMICs
> 120 W	CGH60120D CGHV60170D	CGH60120D CGHV60170D	-	-	-	GaN HEMTs
> 300 W	CGHV40320D	CGHV40320D				GaN HEMTs

Powering More. Consuming Less.