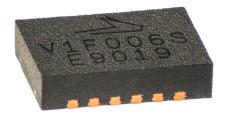


6 W, DC - 15 GHz, 40 V, GaN HEMT

Description

Wolfspeed's CGHV1F006S is an unmatched, gallium nitride (GaN) high electron mobility transistor (HEMT) designed specifically for high efficiency, high gain and wide bandwidth capabilities. The device can be deployed for L, S, C, X and Ku-Band amplifier applications. The datasheet specifications are based on a C-Band (5.5 - 6.5 GHz) amplifier. Additional application circuits are available for C-Band at 5.8 GHz - 7.2 GHz and X-Band at 7.9 - 8.4 GHz and 8.5 - 9.6 GHz. The CGHV1F006S operates on a 40 volt rail circuit while housed in a 3mm x 4mm, surface mount, dual-flat-no-lead (DFN) package. Under reduced power, the transistor can operate below 40V to as low as 20V V_{DD}, maintaining high gain and efficiency.



Package Type: 3x4 DFN PN: CGHV1F006S

Features for 40 V in CGHV1F006S-AMP

- Up to 15 GHz Operation
- 8 W Typical Output Power
- 17 dB Gain at 6.0 GHz
- 15 dB Gain at 9.0 GHz

- Application circuits for 5.8 7.2 GHz, 7.9 8.4GHz, and 8.5 - 9.6 GHz.
- High degree of APD and DPD correction can be applied

Typical Performance Over 5.5 - 6.5 GHz ($T_c = 25$ °C), 40 V

Parameter	5.5 GHz	6.0 GHz	6.5 GHz	Units
Small Signal Gain	15.4	16.5	17.8	dB
Output Power @ P _{IN} = 28 dBm	38.6	39.3	39.0	dBm
Drain Efficiency @ P _{IN} = 28 dBm	55	57	52	%

Listing of Available Hardware Application Circuits / Demonstration Circuits

Application Circuit	Operating Frequency	Amplifier Class	Operating Voltage
CGHV1F006S-AMP1	5.85 - 7.2 GHz	Class A/B	40 V
CGHV1F006S-AMP2	7.9 - 8.4 GHz	Class A/B	40 V
CGHV1F006S-AMP3	8.5 - 9.6 GHz	Class A/B	40 V
CGHV1F006S-AMP4	4.9 - 5.9 GHz	Class A/B	20 V



Large Signal Models Available for ADS and MWO



Absolute Maximum Ratings (not simultaneous) at 25°C Case Temperature

Parameter	Symbol	Rating	Units	Notes	
Drain-Source Voltage	V _{DSS}	120	· ·	25°6	
Gate-to-Source Voltage	V _{GS}	-10, +2	- V	25°C	
Storage Temperature	T _{STG}	-65, +150	°C		
Operating Junction Temperature	T _J	225			
Maximum Forward Gate Current	I _{GMAX}	1.2	mA	25°C	
Maximum Drain Current ¹	I _{DMAX}	0.95	А	25 C	
Soldering Temperature ²	T _s	245	°C		
Case Operating Temperature ^{3,4}	T _c	-40, +150	°C		
Thermal Resistance, Junction to Case⁵	$R_{\theta JC}$	14.5	°C/W	85°C	

Notes:

Electrical Characteristics (TC = 25°C), 40 V Typical

Characteristics	Symbol	Min.	Тур.	Max.	Units	Conditions
DC Characteristics ¹						
Gate Threshold Voltage	$V_{\rm GS(th)}$	-3.6	-3.0	-2.4	V _{DC}	$V_{DS} = 10 \text{ V}, I_{D} = 1.2 \text{ mA}$
Gate Quiescent Voltage	V _{GS(Q)}	-	-2.7	-	V _{DC}	$V_{DS} = 40 \text{ V}, I_{D} = 60 \text{ mA}$
Saturated Drain Current ²	I _{DS}	0.86	1.2	-	Α	$V_{DS} = 6.0 \text{ V}, V_{GS} = 2.0 \text{ V}$
Drain-Source Breakdown Voltage	V _{(BR)DSS}	100	-	ı	V _{DC}	$V_{GS} = -8 \text{ V}, I_{D} = 1.2 \text{ mA}$
RF Characteristics ³ ($T_c = 25^{\circ}C$, $F_0 = 5.0$	925 GHz un	less othe	rwise no	ted)		
Small Signal Gain ^{3,4}	G	15.15	17.4	-	dB	$V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}, P_{IN} = 10 \text{ dBm}$
Output Power ^{3,4}	P _{out}	37.5	38.7	-	dBm	V - 40 V I - C0 m A D - 25 5 d D m
Drain Efficiency ^{3,4}	η	35	52	-	%	$V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}, P_{IN} = 25.5 \text{ dBm}$
Output Mismatch Stress ⁴	VSWR	-	10:1	-	Ψ	No damage at all phase angles, $V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}, P_{IN} = 25.5 \text{ dBm}$
Dynamic Characteristics						
Input Capacitance⁵	C _{GS}	-	1.3	-		
Output Capacitance ⁵	C _{DS}	-	0.31	_	pF	$V_{DS} = 40 \text{ V}, V_{gs} = -8 \text{ V}, f = 1 \text{ MHz}$
Feedback Capacitance	C _{GD}	_	0.04	_		

Notes:

- ¹ Measured on wafer prior to packaging
- ² Scaled from PCM data
- ³ Measured in Wolfspeed's production test fixture. This fixture is designed for high volume testing at 5.925 GHz
- $^{\text{4}}$ Unmodulated Pulsed Signal 100 $\mu s,$ 10% duty cycle
- ⁵ Includes package

¹ Current limit for long term, reliable operation

² Refer to the Application Note on soldering at wolfspeed.com/rf/document-library

 $^{^3}$ Simulated at P_{DISS} = 2.4 W

 $^{^4}$ T_C = Case temperature for the device. It refers to the temperature at the ground tab underneath the package. The PCB will add additional thermal resistance

 $^{^5}$ The R $_{\rm TH}$ for Wolfspeed's application circuit, CGHV1F006S-AMP, with 31 (Ø11 mil) via holes designed on a 20 mil thick Rogers 5880 PCB, is 3.9°C/W. The total R $_{\rm TH}$ from the heat sink to the junction is 14.5°C/W + 3.9°C/W = 18.4°C/W

Electrical Characteristics When Tested in CGHV1F006S-AMP1 at C-Band Under OQPSK

Characteristics	Symbol	Min.	Тур.	Max.	Units	Conditions		
RF Characteristics¹ (T _c = 25 °C, F ₀ = 5.8 - 7.2 GHz unless otherwise noted)								
Gain	G	-	17.5	-	dB	$V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}, P_{IN} = 0 \text{ dBm}$		
Output Power ²	P _{out}	-	39	-	dBm	V = 40 V L = 60 mA D = 27 dDm		
Drain Efficiency ²	η	-	55	-	%	$V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}, P_{IN} = 27 \text{ dBm}$		
OQPSK ³	ACLR	-	-36	-	dBc	$V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}, P_{OUT} = 33 \text{ dBm}$		
Output Mismatch Stress ²	VSWR	-	10:1	-	Ψ	No damage at all phase angles, $V_{DS} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}$		

Motos

Typical Performance - CGHV1F006S-AMP1 at C-Band Under OQPSK

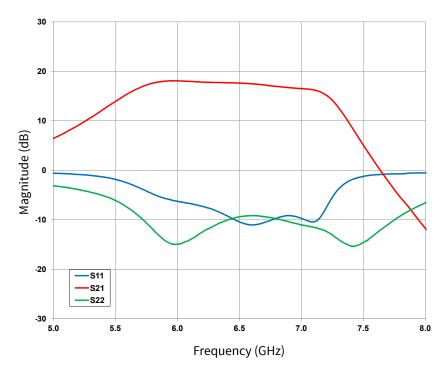


Figure 1. Typical Small Signal Response of CGHV1F006S-AMP1 Application Circuit V_{DD} = 40 V, I_{DO} = 60 mA

3

¹ Measured in CGH1F006S-AMP1 Application Circuit

² Pulsed 100 µs, 10% duty cycle

³ OQPSK modulated signal, 1.6 msps, PN23, Alpha Filter = 0.2 Offset = 1.6 MHz

Typical Performance in Application Circuit CGHV1F006S-AMP1

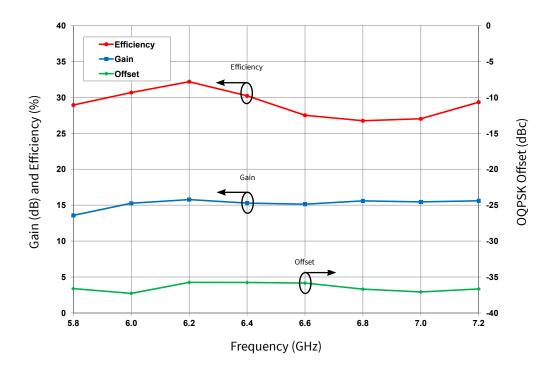


Figure 2. Typical Gain, Efficiency and OQPSK Performance vs Frequency $P_{OUT} = 33 \text{ dBm. V}_{DD} = 40 \text{ V, I}_{DQ} = 60 \text{ mA}$

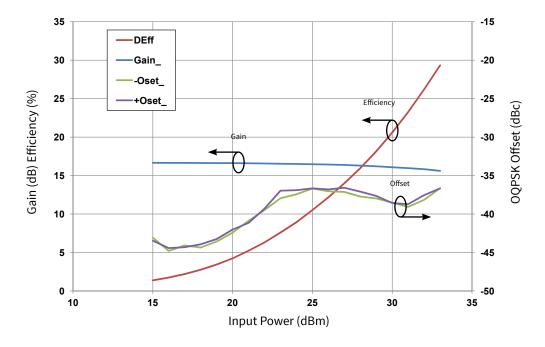


Figure 3. Typical Gain, Efficiency and OQPSK Performance vs Input Power OQPSK Transfer Frequency = 7.2 GHz, V_{DD} = 40 V, I_{DO} = 60 mA

Typical Performance in Application Circuit CGHV1F006S-AMP1

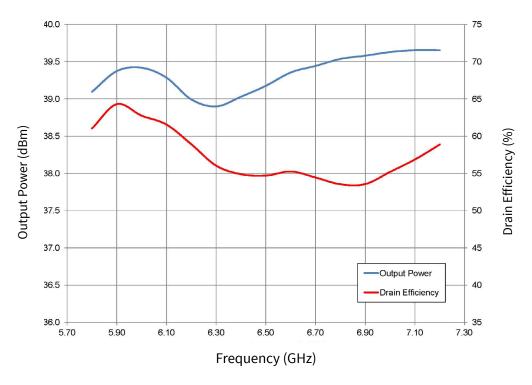
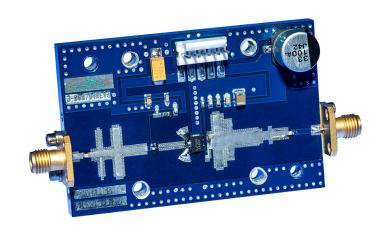


Figure 4. Typical Pulsed Power Response $V_{DD} = 40 \text{ V}, I_{DO} = 60 \text{ mA}, 100 \text{ } \mu\text{s}, 10\% \text{ Duty}, P_{IN} = 27 \text{ dBm}$

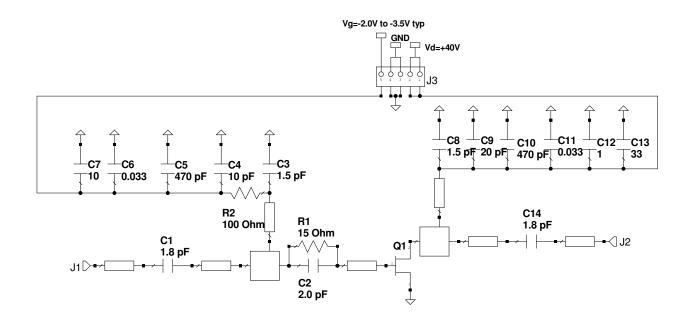
CGHV1F006S-AMP1 Application Circuit Bill of Materials, OQPSK

Designator	Description	Qty
R1	RES, 15 ohm, +1/-1%, 1/16 W, 0402	1
R2	RES, 100 ohm, +1/-1%, 1/16 W, 0603	1
C1, C14	CAP, 1.8 pF, ±0.1 pF, 0603, ATC	2
C2	CAP, 2.0 pF, ±0.1 pF, 0402, ATC	1
C3, C8	CAP, 1.5 pF, ±0.1 pF, 0402, ATC	2
C4	CAP, 10 pF, ±5%, 0603, ATC	1
C5, C10	CAP, 470 pF, 5%, 100 V, 0603, X	2
C6, C11	CAP, 33000 pF, 0805, 100V, X7R	2
C7	CAP, 10 μF, 16 V, TANTALUM	1
C9	CAP, 20 pF, ±5%, 0603, ATC	1
C12	CAP, 1.0 μF, 100V, 10% X7R, 1210	1
C13	CAP, 33 μF, 20%, G CASE	1
J1, J2	CONN, SMA, PANEL MOUNT JACK, FLANGE	2
	PCB, RT5880, 0.020" THK, CGHV1F006S	1
J3	HEADER RT>PLZ .1CEN LK 5POS	1
Q1	QFN TRANSISTOR CGHV1F006S	1

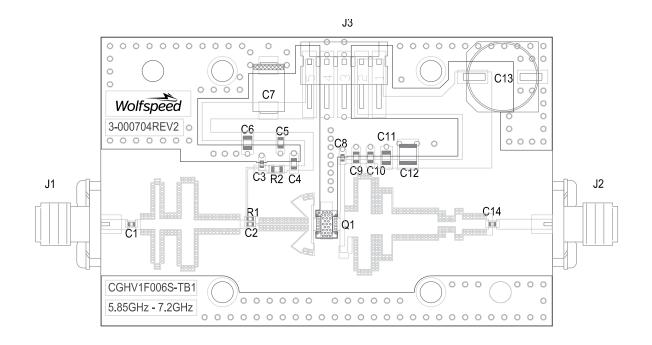
CGHV1F006S-AMP1 Application Circuit



CGHV1F006S-AMP1 Application Circuit Schematic, OQPSK



CGHV1F006S-AMP1 Application Circuit Outline, OQPSK



Electrical Characteristics When Tested in CGHV1F006S-AMP2 at X-Band, SATCOM

Characteristics	Symbol	Min.	Тур.	Max.	Units	Conditions		
RF Characteristics¹ (T _c = 25°C, F ₀ = 7.9 - 8.4 GHz unless otherwise noted)								
Gain	G	-	15	-	dB	$V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}, P_{IN} = 0 \text{ dBm}$		
Output Power ²	Роит	-	39	_	dBm	$V_{DD} = 40 \text{ V}, I_{DO} = 60 \text{ mA}, P_{IN} = 28 \text{ dBm}$		
Drain Efficiency ²	η	-	55	-	%	V _{DD} = 40 V, I _{DQ} = 00 IIIA, F _{IN} = 28 dBIII		
OQPSK ³	ACLR	-	-37		dBc	$V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}, P_{OUT} = 33 \text{ dBm}$		
Output Mismatch Stress ²	VSWR	-	10:1	-	Ψ	No damage at all phase angles, $V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}, P_{IN} = 28 \text{ dBm}$		

Notos

Typical Performance in Application Circuit CGHV1F006S-AMP2 at X-Band, SATCOM

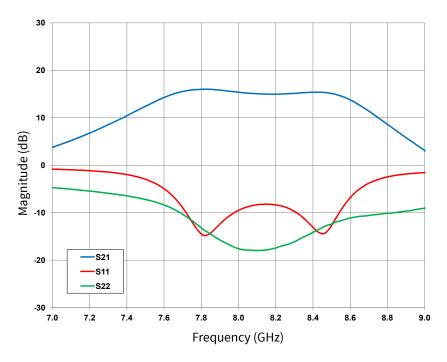


Figure 5. Typical Small Signal Response of CGHV1F006S-AMP2 Application Circuit $V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}$

¹Measured in CGHV1F006S-AMP2 Application Circuit

² Pulsed 100 μs, 10% duty cycle

³ OQPSK modulated signal, 1.6 msps, PN23, Alpha Filter = 0.2 Offset = 1.6 MHz

Typical Performance in Application Circuit CGHV1F006S-AMP2

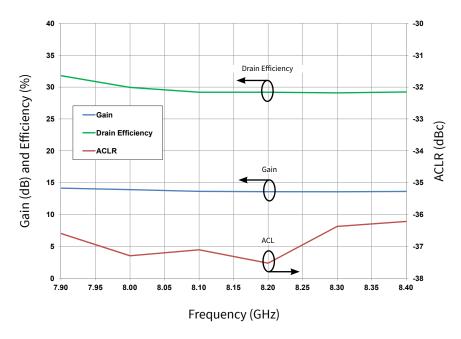


Figure 6. Typical OQPSK Response $V_{DD} = 40 \text{ V}, I_{DO} = 60 \text{ mA}, 1.6 \text{ MSPS}, P_{OUT} = 33 \text{ dBm}$

Typical Performance in Application Circuit CGHV1F006S-AMP2

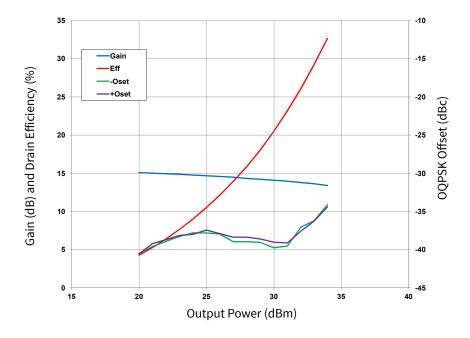


Figure 7. OQPSK Transfer Response $V_{DD} = 40 \text{ V}, I_{DO} = 60 \text{ mA}, 1.6 \text{ MSPS}, Frequency} = 8.4 \text{ GHz}$

Typical Performance in Application Circuit CGHV1F006S-AMP2

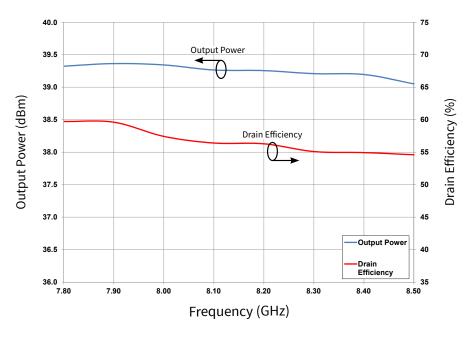
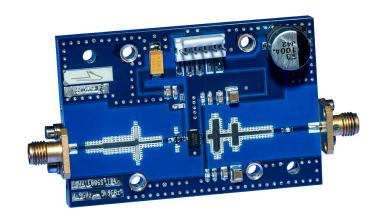


Figure 8. Typical Pulsed Power Response $V_{DD} = 40 \text{ V}$, $I_{DO} = 60 \text{ mA}$, $100 \text{ } \mu\text{s}$, 10% Duty, $P_{IN} = 28 \text{ dBm}$

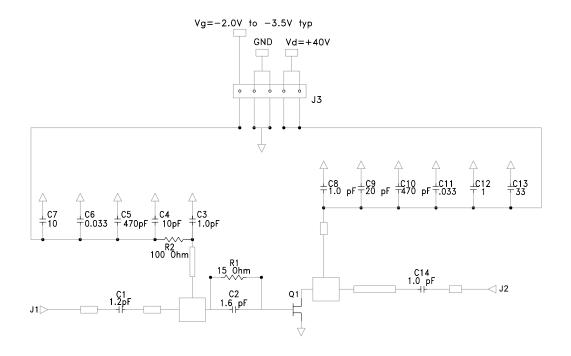
CGHV1F006S-AMP2 Application Circuit Bill of Materials, SATCOM

Designator	Description	Qty
R1	RES, 15 ohm, +1/-1%, 1/16 W, 0402	1
R2	RES, 100 ohm, +1/-1%, 1/16 W, 0603	1
C3, C8	CAP, 1.0 pF, ±0.05 pF, 0402, ATC	2
C14	CAP, 1.0 pF, ±5%, 0603, ATC	1
C1	CAP, 1.2 pF, ±5%, 0603, ATC	1
C2	CAP, 1.6 pF, ±5%, 0402, ATC	1
C4	CAP, 10 pF, ±5%, 0603, ATC	1
C5, C10	CAP, 470 pF, 5%, 100V, 0603, X	2
C6,C11	CAP, 33000 pF, 0805, 100V, X7R	2
C7	CAP, 10 μF, 16 V, TANTALUM	1
C9	CAP, 20 pF, ±5%, 0603, ATC	1
C12	CAP, 1.0 μF, 100V, 10%, X7R, 1210	1
C13	CAP, 33 μF, 20%, G CASE	1
J1, J2	CONN, SMA, PANEL MOUNT JACK, FLANGE	2
	PCB, RT5880, 0.020" THK, CGHV1F006S	1
	BASEPLATE, AL, 2.60 X 1.70 X 2.50	1
J3	HEADER RT>PLZ .1CEN LK 5POS	1
	2-56 SOC HD SCREW 1/4 SS	4
	#2 SPLIT LOCKWASHER SS	4
Q1	QFN TRANSISTOR CGHV1F006S	1

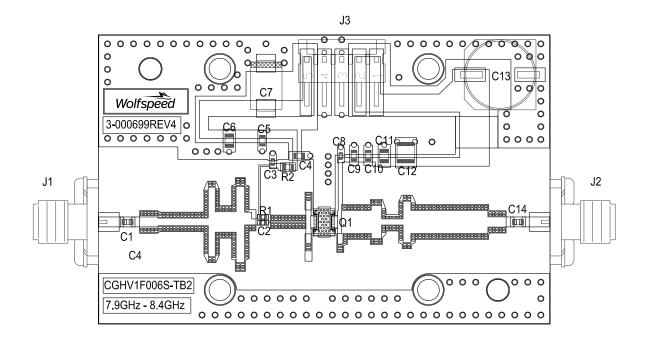
CGHV1F006S-AMP2 Application Circuit



CGHV1F006S-AMP2 Application Circuit Schematic, SATCOM



CGHV1F006S-AMP2 Application Circuit Outline, SATCOM



Electrical Characteristics When Tested in CGHV1F006S-AMP3 at X-Band, RADAR

Characteristics	Symbol	Min.	Тур.	Max.	Units	Conditions	
RF Characteristics¹ (T _c = 25°C, F ₀ = 8.5 - 9.6 GHz unless otherwise noted)							
Gain	G	ı	14.5	-	dB	$V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}, P_{IN} = 0 \text{ dBm}$	
Output Power ²	Роит	-	38.5	-	dBm		
Drain Efficiency ²	η	-	52	-	%	$V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}, P_{IN} = 28 \text{ dBm}$	
Output Mismatch Stress ²	VSWR	_	10:1	-	Ψ		

Notes:

Typical Performance in Application Circuit CGHV1F006S-AMP3 at X-Band, RADAR

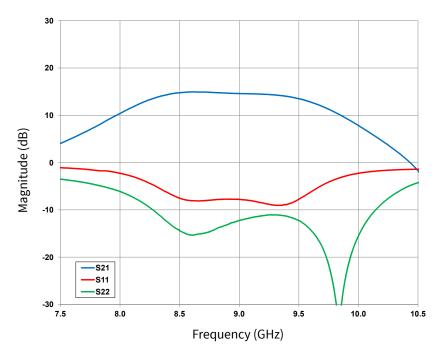


Figure 9. Typical Small Signal Response $V_{DD} = 40 \text{ V}, I_{DQ} = 60 \text{ mA}$

¹Measured in CGHV1F006S-AMP3 Application Circuit

² Pulsed 100 μs, 10% duty cycle

Typical Performance in Application Circuit CGHV1F006S-AMP3

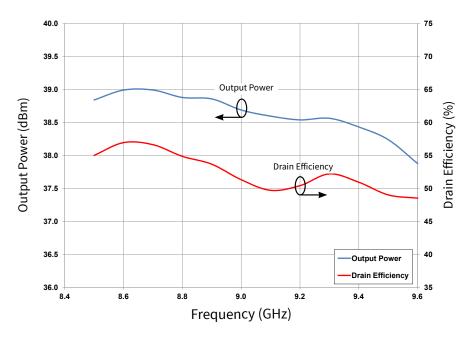
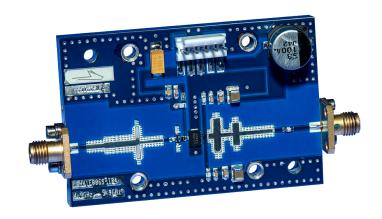


Figure 10. Typical Pulsed Power Response $V_{DD} = 40 \text{ V}, I_{DO} = 60 \text{ mA}, 100 \text{ } \mu\text{s}, 10\% \text{ Duty}, P_{IN} = 28 \text{ dBm}$

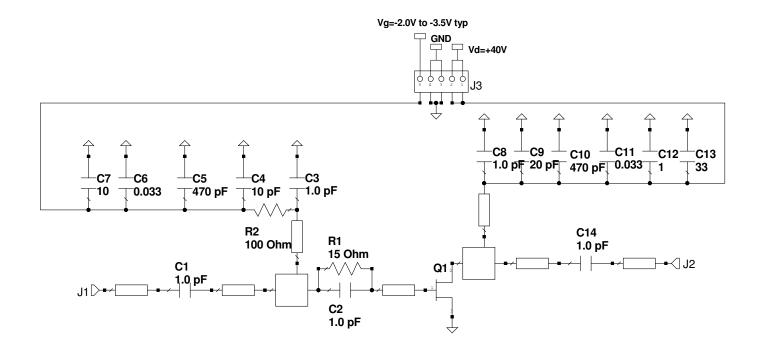
CGHV1F006S-AMP3 Application Circuit Bill of Materials, RADAR

Designator	Description	Qty
R1	RES, 15 ohm, +1/-1%, 1/16 W, 0402	1
R2	RES, 100 ohm, +1/-1%, 1/16 W, 0603	1
C1, C14	CAP, 1.0 pF, ±0.05 pF, 0603, ATC	2
C2	CAP, 1.0 pF, ±0.05 pF, 0402, ATC	1
C3, C8	CAP, 0.8 pF, ±0.05 pF, 0402, ATC	2
C4	CAP, 10 pF, ±5%, 0603, ATC	1
C5, C10	CAP, 470 pF, 5%, 100 V, 0603, X	2
C6, C11	CAP, 33000 pF, 0805, 100V, X7R	2
C7	CAP, 10 μF, 16 V, TANTALUM	1
C9	CAP, 20 pF, ±5%, 0603, ATC	1
C12	CAP, 1.0 μF, 100V, 10% X7R, 1210	1
C13	CAP, 33 μF, 20%, G CASE	1
J1, J2	CONN, SMA, PANEL MOUNT JACK, FLANGE	2
J3	HEADER RT>PLZ .1CEN LK 5POS	1
Q1	QFN TRANSISTOR CGHV1F006S	1

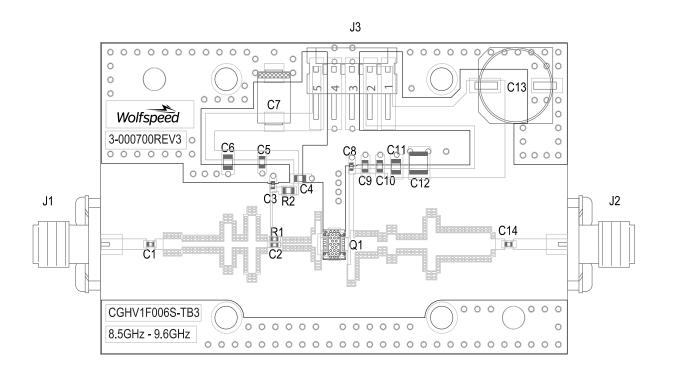
CGHV1F006S-AMP3 Application Circuit



CGHV1F006S-AMP3 Application Circuit Schematic, RADAR



CGHV1F006S-AMP3 Application Circuit Outline, RADAR



Electrical Characteristics When Tested in CGHV1F006S-AMP4 at 802.11

Characteristics	Symbol	Min.	Тур.	Max.	Units	Conditions		
RF Characteristics¹ (T _c = 25°C, F ₀ = 4.9 - 5.9 GHz unless otherwise noted)								
Gain	G	-	13	-	dB	V = 20 V L = 20 mA D = 27 dDm		
Drain Efficiency ²	η	-	27	-	%	$V_{DD} = 20 \text{ V, I}_{DQ} = 30 \text{ mA, P}_{IN} = 27 \text{ dBm}$		
OQPSK ³	ACLR	-	-43	-	dBc	$V_{DD} = 20 \text{ V}, I_{DQ} = 30 \text{ mA}, P_{OUT} = 27 \text{ dBm}$		
Output Mismatch Stress ²	VSWR	-	10:1	-	Ψ	No damage at all phase angles, $V_{DD} = 20 \text{ V}, I_{DQ} = 30 \text{ mA}, P_{IN} = 27 \text{ dBm}$		

Notes:

Typical Performance - CGHV1F006S-AMP4 at 802.11

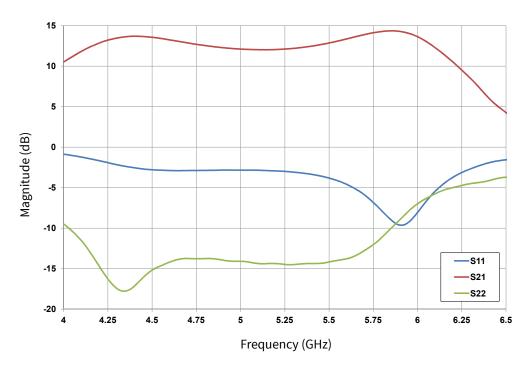


Figure 11. Typical Small Signal Response $V_{DD} = 20 \text{ V}, I_{DQ} = 30 \text{ mA}$

¹Measured in CGHV1F006S-AMP4 Application Circuit

² Single carrier WCDMA, 3GPP Test Model 1, G4 DPCH, 45% clipping, PAR = 7.5 dB @ 0.01% probability on CCDF

Typical Performance in Application Circuit CGHV1F006S-AMP4

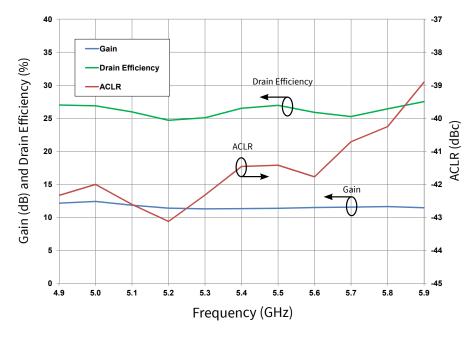
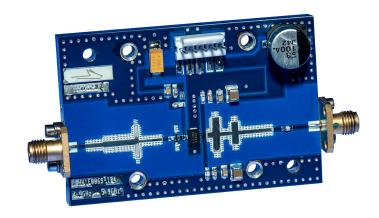


Figure 12. Typical Gain, Efficiency and WCDMA Performance vs Frequency $V_{DD} = 20 \text{ V}, I_{DO} = 30 \text{ mA}, P_{OUT} = 27 \text{ dBm}$

CGHV1F006S-AMP4 Application Circuit Bill of Materials at 802.11

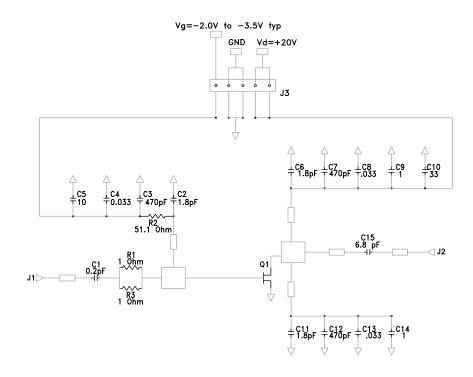
Designator	Description	Qty
R1, R3	RES, 1 ohm, +/-1%, 1/16 W, 0402	2
R2	RES, 51.1, ohm, +/-1%, 1/16W, 0603	1
C2, C6, C11	CAP, 1.8 pF, +/-0.1 pF, 0603, ATC	3
C1	CAP, 0.2 pF, +/-0.05 pF, 0402, ATC	1
C3, C7, C12	CAP, 470 pF, 5%, 100 V, 0603, X	3
C4, C8, C13	CAP, 33000 pF, 0805, 100 V, X7R	3
C5	CAP, 10 μF, 16 V, TANTALUM	1
C15	CAP, 6.8 pF, ±0.25 pF, 100 V, 0603	1
C9, C14	CAP, 1.0 μF, 100V, 10% X7R, 1210	2
C10	CAP, 33 μF, 20%, G CASE	1
J1, J2	CONN, SMA, PANEL MOUNT JACK, FLANGE	2
	PCB, RO4350B, 0.020" THK, CGHV1F006S	1
	BASEPLATE, CGH35015, 2.60 X 1.7	1
J3	HEADER RT>PLZ .1CEN LK 5POS	1
	2-56 SOC HD SCREW 1/4 SS	4
	#2 SPLIT LOCKWASHER SS	4
Q1	QFN TRANSISTOR CGHV1F006S	1

CGHV1F006S-AMP4 Application Circuit

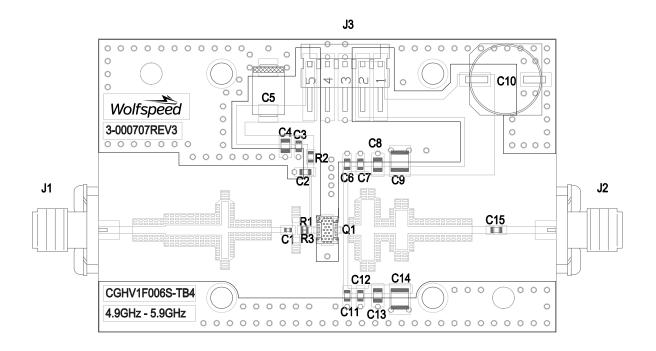




CGHV1F006S-AMP4 Application Circuit Schematic, SATCOM



CGHV1F006S-AMP4 Application Circuit Outline, SATCOM



CGHV1F006S Power Dissipation De-rating Curve

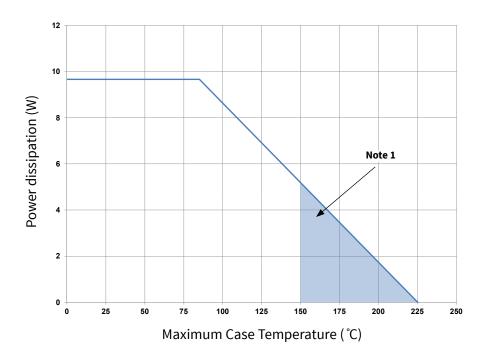


Figure 13. CGHV1F006S Transient Power Dissipation De-Rating Curve

Note:

Electrostatic Discharge (ESD) Classifications

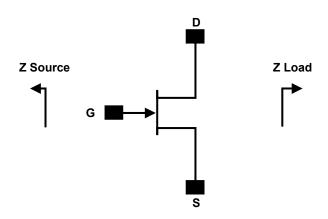
Parameter	Symbol	Class	Classification Level	Test Methodology
Human Body Model	НВМ	1B	ANSI/ESDA/JEDEC JS-001 Table 3	JEDEC JESD22 A114-D
Charge Device Model	CDM	0CB	ANSI/ESDA/JEDEC JS-002 Table 3	JEDEC JESD22 C101-C

Moisture Sensitivity Level (MSL) Classification

Parameter	Symbol	Level	Test Methodology
Moisture Sensitivity Level	MSL	3 (168 hours)	IPC/JEDEC J-STD-20

¹ Area exceeds Maximum Case Temperature (See Page 2)

Source and Load Impedances



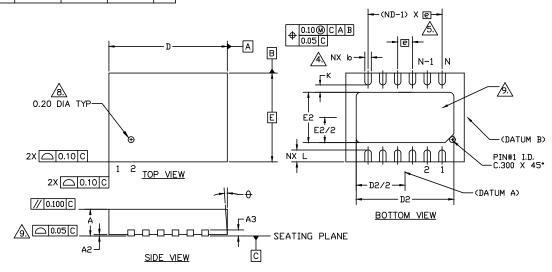
Frequency (GHz)	Z Source	Z Load
1	49.67 + j32.81	184.11 + j6.66
3	11.54 + j3.96	38.83 + j56.37
6	5.94 - j17.97	13.03 + j16.16
10	11.87 - j77.62	11.79 - j17.43
12	47.42 - j205.35	16.39 - j46.22
15	33.78 + j251.03	163.61 - j268.44

Notes:

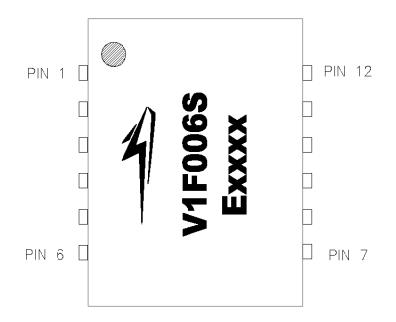
 $^{^1}$ V $_{\rm DD}$ = 40 V, I $_{\rm DQ}$ = 60 mA 2 Impedances are extracted from source and load pull data derived from the transistor

Product Dimensions CGHV1F006S (Package 3 x 4 DFN)

_				
S + M B O -	COMMON DIMENSIONS			No _{TE}
٥	MIN.	NOM.	MAX.	TΕ
Α	0.80	0.90	1.0	
A1	0.00	0.02	0.05	
Α3	(0.203 REF		
0	0		12	2
D	4.00 BSC			
Ε	3.00 BSC			
е	0.50 BSC			
N	12			3
ND	6			Þ
L	0.35	0.40	0.45	
b	0.18	0.25	0.30	<u>A</u>
D2	3.20	3.30	3.40	
E2	1.60	1.7	1.80	
Κ	0.20			



Pin Input/O	utput	
1 GNE)	
2 NC		
3 RF II	N	
4 RF II	N	
5 NC		
6 GNE)	
7 GNE)	
8 NC		
9 RF OU	JT	
10 RF OU	JT	
11 NC		
12 GNE	GND	
6 GNE 7 GNE 8 NC 9 RF OU 10 RF OU 11 NC	D D JT JT	



Part Number System

CGHV1F006S



Table 1.

Parameter	Value	Units
Upper Frequency ¹	15.0	GHz
Power Output	6	w
Package	Surface Mount	-

Note:

Table 2.

Character Code	Code Value
A	0
В	1
С	2
D	3
E	4
F	5
G	6
Н	7
J	8
К	9
Examples:	1A = 10.0 GHz 2H = 27.0 GHz

¹ Alpha characters used in frequency code indicate a value greater than 9.9 GHz. See Table 2 for value.

Product Ordering Information

Order Number	Description	Unit of Measure	Image
CGHV1F006S	GaN HEMT	Each	V1 E 90 9 8 5
CGHV1F006S-AMP1	Test board with GaN HEMT installed, 5.85 - 7.2 GHz, 50 V C-Band under OQPSK	Each	
CGHV1F006S-AMP2	Test board with GaN HEMT installed, 7.9 - 8.4 GHz, 28 V X-Band SATCOM	Each	PRINCIPAL OF THE PRINCI
CGHV1F006S-AMP3	Test board with GaN HEMT installed, 8.5 - 9.6 GHz, 28 V X-Band RADAR	Each	
CGHV1F006S-AMP4	Test board with GaN HEMT installed, 4.9 - 5.9 GHz, 50 V 802.11	Each	SECURITY OF STATE OF

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