



RF Power LDMOS Transistors

N-Channel Enhancement-Mode Lateral MOSFETs

These 50 W asymmetrical Doherty RF power LDMOS transistors are designed for cellular base station applications requiring very wide instantaneous bandwidth capability covering the frequency range of 2496 to 2690 MHz.

- Typical Doherty Single-Carrier W-CDMA Performance: $V_{DD} = 28$ Vdc, $I_{DQA} = 700$ mA, $V_{GSB} = 0.4$ Vdc, $P_{out} = 50$ W Avg., Input Signal PAR = 9.9 dB @ 0.01% Probability on CCDF.

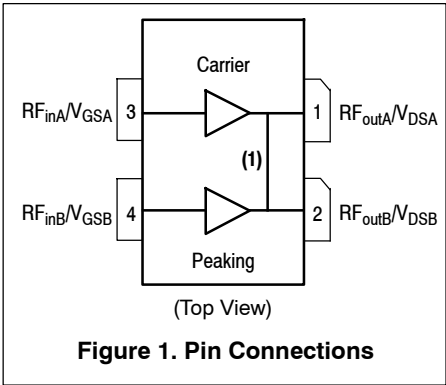
Frequency	G_{ps} (dB)	η_D (%)	Output PAR (dB)	ACPR (dBc)
2496 MHz	14.1	44.6	8.1	-31.5
2590 MHz	14.4	44.9	8.1	-33.8
2690 MHz	14.2	44.2	7.9	-37.6

AFT26H250W03SR6
AFT26H250-24SR6

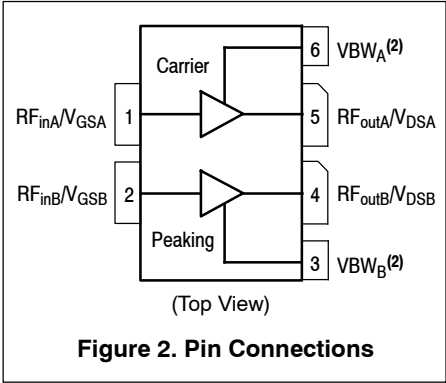
2496–2690 MHz, 50 W AVG., 28 V
AIRFAST RF POWER LDMOS
TRANSISTORS

Features

- Advanced High Performance In-Package Doherty
- Designed for Wide Instantaneous Bandwidth Applications (AFT26H250W03S)
- Greater Negative Gate-Source Voltage Range for Improved Class C Operation
- Designed for Digital Predistortion Error Correction Systems
- In Tape and Reel. R6 Suffix = 150 Units, 56 mm Tape Width, 13-inch Reel.



1. Pin connections 1 and 2 are DC coupled and RF independent.



2. Device cannot operate with the V_{DD} current supplied through pin 3 and pin 6.

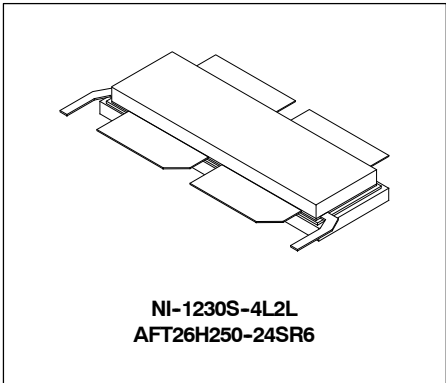
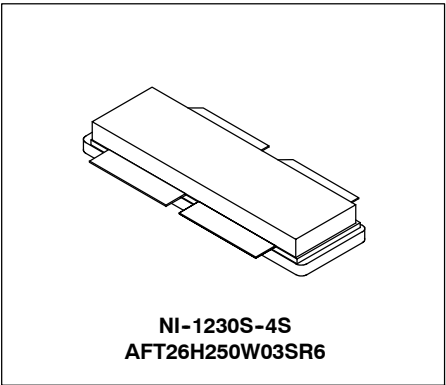


Table 1. Maximum Ratings

Rating	Symbol	Value	Unit
Drain-Source Voltage	V_{DS}	-0.5, +65	Vdc
Gate-Source Voltage	V_{GS}	-6.0, +10	Vdc
Operating Voltage	V_{DD}	32, +0	Vdc
Storage Temperature Range	T_{stg}	-65 to +150	°C
Case Operating Temperature Range	T_C	-40 to +125 -40 to +150	°C
Operating Junction Temperature Range (1,2)	T_J	-40 to +225	°C
CW Operation @ $T_C = 25^\circ\text{C}$ Derate above 25°C	CW	294 1.7	W W/°C

Table 2. Thermal Characteristics

Characteristic	Symbol	Value (2,3)	Unit
Thermal Resistance, Junction to Case Case Temperature 78°C , 50 W-CDMA, 28 Vdc, $I_{DQA} = 700\text{ mA}$, $V_{GSB} = 0.4\text{ Vdc}$, 2590 MHz	$R_{\theta JC}$	0.42	°C/W

Table 3. ESD Protection Characteristics

Test Methodology	Class
Human Body Model (per JESD22-A114)	2
Machine Model (per EIA/JESD22-A115)	B
Charge Device Model (per JESD22-C101)	IV

Table 4. Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
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Off Characteristics

Zero Gate Voltage Drain Leakage Current ($V_{DS} = 65\text{ Vdc}$, $V_{GS} = 0\text{ Vdc}$)	AFT26H250W03S (4,5) AFT26H250-24S (6)	I_{DSS}	—	—	10	μAdc
Zero Gate Voltage Drain Leakage Current ($V_{DS} = 28\text{ Vdc}$, $V_{GS} = 0\text{ Vdc}$)	AFT26H250W03S (4,5) AFT26H250-24S (6)	I_{DSS}	—	—	5 1	μAdc
Gate-Source Leakage Current ($V_{GS} = 5\text{ Vdc}$, $V_{DS} = 0\text{ Vdc}$)	AFT26H250W03S (4,5) AFT26H250-24S (6)	I_{GSS}	—	—	1	μAdc

On Characteristics - Side A (Carrier)

Gate Threshold Voltage ($V_{DS} = 10\text{ Vdc}$, $I_D = 140\text{ }\mu\text{Adc}$)	AFT26H250W03S (4,6) AFT26H250-24S (6)	$V_{GS(th)}$	0.8	1.2	1.6	Vdc
Gate Quiescent Voltage ($V_{DD} = 28\text{ Vdc}$, $I_{DA} = 700\text{ mAdc}$, Measured in Functional Test)	AFT26H250W03S (4,6) AFT26H250-24S (6)	$V_{GS(Q)}$	1.4	1.8	2.2	Vdc
Drain-Source On-Voltage ($V_{GS} = 6\text{ Vdc}$, $I_D = 1.4\text{ Adc}$)	AFT26H250W03S (4,6) AFT26H250-24S (6)	$V_{DS(on)}$	0.1	0.15	0.3	Vdc

On Characteristics - Side B (Peaking)

Gate Threshold Voltage ($V_{DS} = 10\text{ Vdc}$, $I_D = 200\text{ }\mu\text{Adc}$)	AFT26H250W03S (4,6) AFT26H250-24S (6)	$V_{GS(th)}$	0.8	1.2	1.6	Vdc
Drain-Source On-Voltage ($V_{GS} = 6\text{ Vdc}$, $I_D = 2.0\text{ Adc}$)	AFT26H250W03S (4,6) AFT26H250-24S (6)	$V_{DS(on)}$	0.1	0.15	0.3	Vdc

1. Continuous use at maximum temperature will affect MTTF.
2. MTTF calculator available at <http://www.freescale.com/rf>. Select Software & Tools/Development Tools/Calculators to access MTTF calculators by product.
3. Refer to AN1955, *Thermal Measurement Methodology of RF Power Amplifiers*. Go to <http://www.freescale.com/rf>. Select Documentation/Application Notes - AN1955.
4. V_{DDA} and V_{ddb} must be tied together and powered by a single DC power supply.
5. Side A and Side B are tied together for these measurements.
6. Each side of device measure separately.

(continued)

Table 4. Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted) (continued)

Characteristic	Symbol	Min	Typ	Max	Unit
Functional Tests ^(1,2,3) (In Freescale Doherty Test Fixture, 50 ohm system) $V_{DD} = 28\text{ Vdc}$, $I_{DQA} = 700\text{ mA}$, $V_{GSB} = 0.4\text{ Vdc}$, $P_{out} = 50\text{ W Avg.}$, $f = 2496\text{ MHz}$, Single-Carrier W-CDMA, IQ Magnitude Clipping, Input Signal PAR = 9.9 dB @ 0.01% Probability on CCDF. ACPR measured in 3.84 MHz Channel Bandwidth @ $\pm 5\text{ MHz}$ Offset.					
Power Gain	G_{ps}	13.0	14.1	16.0	dB
Drain Efficiency	η_D	41.0	44.6	—	%
Output Peak-to-Average Ratio @ 0.01% Probability on CCDF AFT26H250W03S AFT26H250-24S	PAR	7.5 7.4	8.1 8.1	— —	dB
Adjacent Channel Power Ratio	ACPR	—	-31.5	-29.0	dBc

Load Mismatch — AFT26H250W03S (In Freescale Test Fixture, 50 ohm system) $I_{DQA} = 700\text{ mA}$, $f = 2590\text{ MHz}$

VSWR 10:1 at 32 Vdc, 364 W ⁽⁴⁾ CW Output Power (3 dB Input Overdrive from 230 W CW Rated Power)	No Device Degradation
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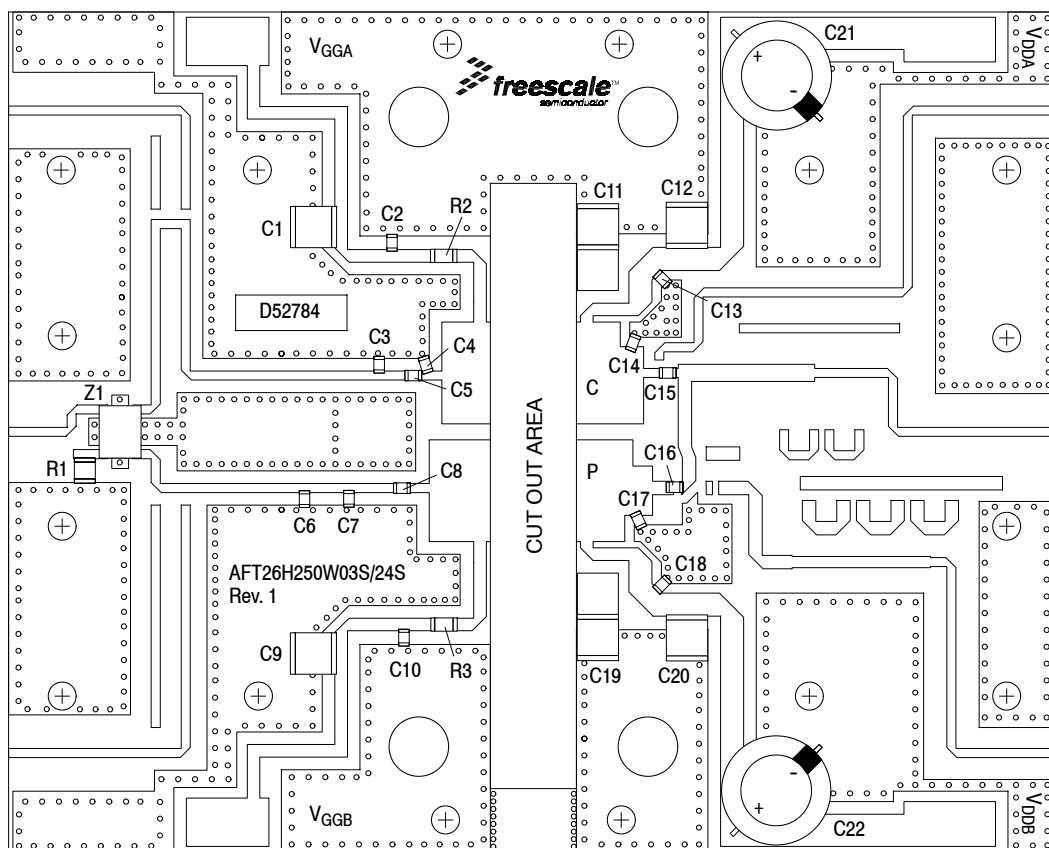
Load Mismatch — AFT26H250-24S (In Freescale Test Fixture, 50 ohm system) $I_{DQA} = 700\text{ mA}$, $f = 2590\text{ MHz}$

VSWR 10:1 at 32 Vdc, 335 W ⁽⁴⁾ CW Output Power (2 dB Input Overdrive from 230 W CW Rated Power)	No Device Degradation
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Typical Performances ⁽²⁾ (In Freescale Doherty Test Fixture, 50 ohm system) $V_{DD} = 28\text{ Vdc}$, $I_{DQA} = 700\text{ mA}$, $V_{GSB} = 0.4\text{ Vdc}$, 2496-2690 MHz Bandwidth

P_{out} @ 1 dB Compression Point, CW	P1dB	—	230	—	W
P_{out} @ 3 dB Compression Point ⁽⁵⁾	P3dB	—	320	—	W
AM/PM (Maximum value measured at the P3dB compression point across the 2496-2690 MHz frequency range)	Φ	—	-22	—	°
VBW Resonance Point (IMD Third Order Intermodulation Inflection Point)	VBW _{res}	— —	140 110	— —	MHz
Gain Flatness in 194 MHz Bandwidth @ $P_{out} = 50\text{ W Avg.}$	G_F	—	0.3	—	dB
Gain Variation over Temperature (-30°C to +85°C)	ΔG	—	0.002	—	dB/°C
Output Power Variation over Temperature (-30°C to +85°C) ⁽⁴⁾	$\Delta P1dB$	—	0.006	—	dB/°C

1. Part internally matched both on input and output.
2. V_{DDA} and V_{DDB} must be tied together and powered by a single DC power supply (AFT26H250W03S).
3. Measurements made with device in an asymmetrical Doherty configuration.
4. Exceeds recommended operating conditions. See CW operation data in Maximum Ratings table.
5. $P3dB = P_{avg} + 7.0\text{ dB}$ where P_{avg} is the average output power measured using an unclipped W-CDMA single-carrier input signal where output PAR is compressed to 7.0 dB @ 0.01% probability on CCDF.



Note: V_{DDA} and V_{ddb} must be tied together and powered by a single DC power supply.

Figure 3. AFT26H250W03SR6(-24SR6) Test Circuit Component Layout

Table 5. AFT26H250W03SR6(-24SR6) Test Circuit Component Designations and Values

Part	Description	Part Number	Manufacturer
C1, C9, C11, C12, C19, C20	10 μ F Chip Capacitors	C5750X7S2A106M230KB	TDK
C2, C5, C8, C10, C13, C18	6.8 pF Chip Capacitors	ATC600F6R8BT250XT	ATC
C3, C4	0.5 pF Chip Capacitors	ATC600F0R5BT250XT	ATC
C6, C7	0.3 pF Chip Capacitors	ATC600F0R3BT250XT	ATC
C14	0.8 pF Chip Capacitor	ATC600F0R8BT250XT	ATC
C15	2.0 pF Chip Capacitor	ATC600F2R0BT250XT	ATC
C16	10 pF Chip Capacitor	ATC600F100JT250XT	ATC
C17	0.9 pF Chip Capacitor	ATC600F0R9BT250XT	ATC
C21, C22	220 μ F Electrolytic Capacitors	227CKS050M	Illinois Capacitor
R1	50 Ω , 4 W Chip Resistor	CW12010T0050GBK	ATC
R2, R3	2.0 Ω , 1/4 W Chip Resistors	CRCW12062R00JNEA	Vishay
Z1	2300–2700 MHz Band, 5 dB Directional Coupler	X3C25P1-05S	Anaren
PCB	Rogers RO4305B, 0.020", $\epsilon_r = 3.66$	D52784	MTL

TYPICAL CHARACTERISTICS

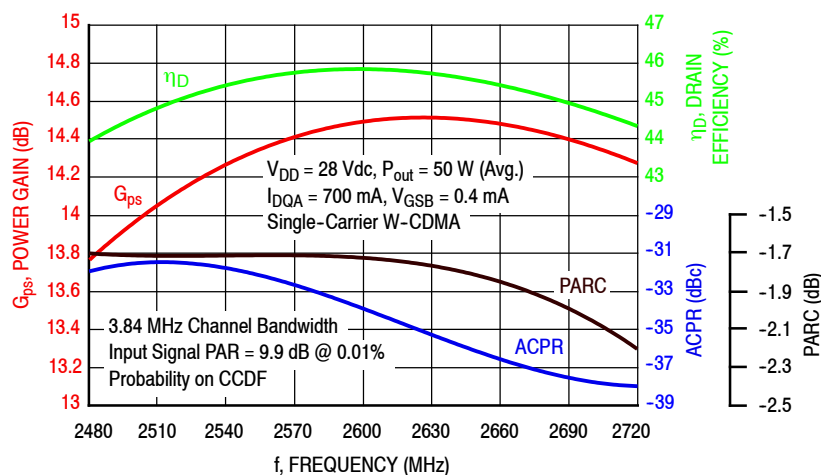


Figure 4. Single-Carrier Output Peak-to-Average Ratio Compression (PARC) Broadband Performance @ $P_{out} = 50$ Watts Avg.

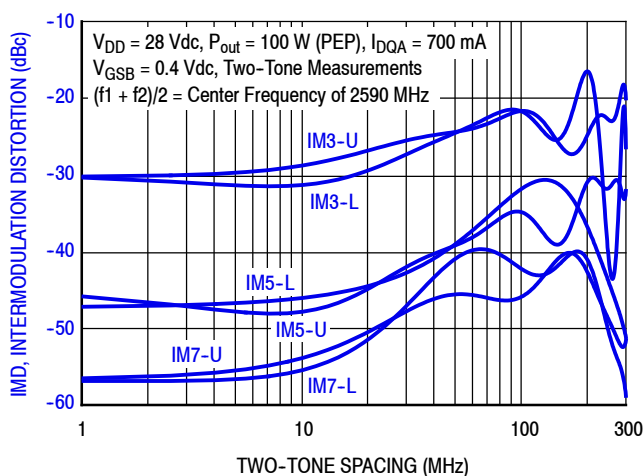


Figure 5. Intermodulation Distortion Products versus Two-Tone Spacing — AFT26H250W03S

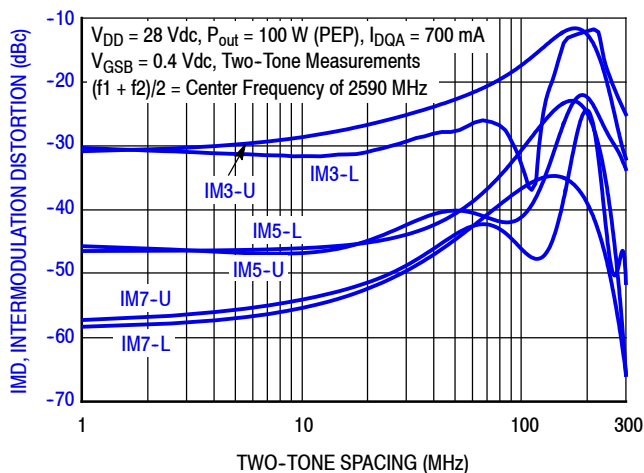


Figure 6. Intermodulation Distortion Products versus Two-Tone Spacing — AFT26H250-24S

TYPICAL CHARACTERISTICS

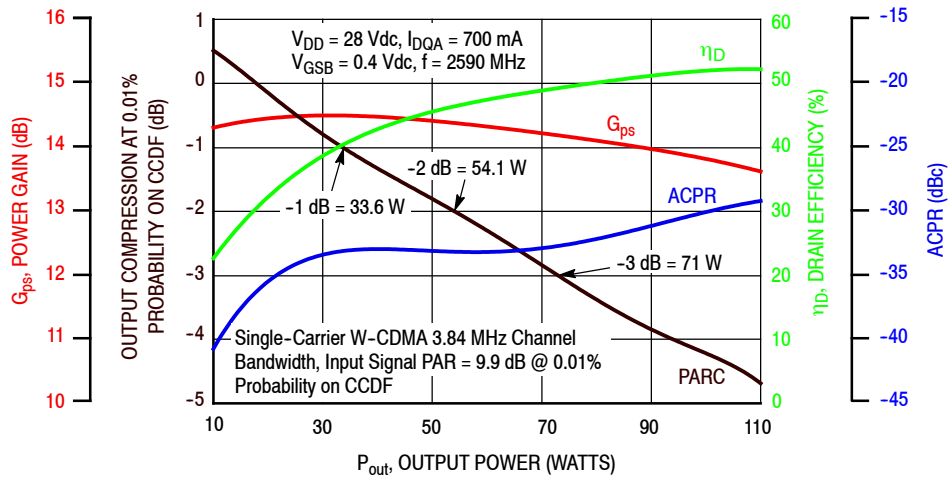


Figure 7. Output Peak-to-Average Ratio Compression (PARC) versus Output Power

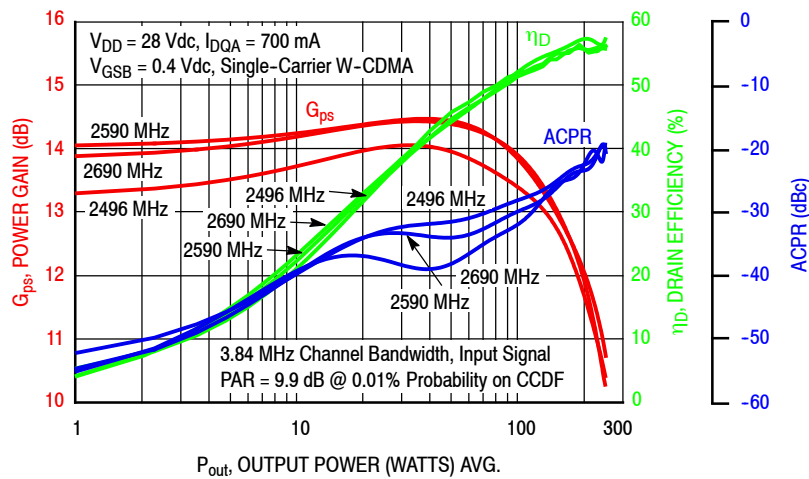


Figure 8. Single-Carrier W-CDMA Power Gain, Drain Efficiency and ACPR versus Output Power

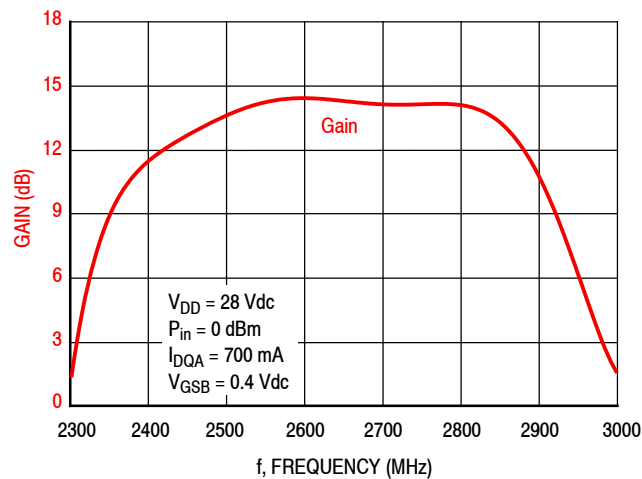


Figure 9. Broadband Frequency Response

$V_{DD} = 28 \text{ Vdc}$, $I_{DQA} = 689 \text{ mA}$, Pulsed CW, 10 $\mu\text{sec}(\text{on})$, 10% Duty Cycle

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Output Power					
			P1dB					
			$Z_{\text{load}}^{(1)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
2496	4.07 - j10.7	4.00 + j9.61	2.03 - j4.57	17.4	51.8	151	54.1	-13
2590	7.57 - j11.9	6.72 + j10.7	2.00 - j4.75	17.6	51.7	147	53.2	-12
2690	15.7 - j9.50	12.9 + j8.73	2.00 - j5.11	17.6	51.6	143	52.4	-13

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Output Power					
			P3dB					
			$Z_{\text{load}}^{(2)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
2496	4.07 - j10.7	3.92 + j10.2	1.92 - j4.78	15.2	52.5	179	54.9	-17
2590	7.57 - j11.9	7.03 + j11.7	1.91 - j4.97	15.3	52.4	174	53.6	-17
2690	15.7 - j9.50	14.9 + j9.37	1.92 - j5.34	15.3	52.3	170	52.4	-17

(1) Load impedance for optimum P1dB power.

(2) Load impedance for optimum P3dB power.

Z_{source} = Measured impedance presented to the input of the device at the package reference plane.

Z_{in} = Impedance as measured from gate contact to ground.

Z_{load} = Measured impedance presented to the output of the device at the package reference plane.

Figure 10. Carrier Side Load Pull Performance — Maximum Power Tuning

$V_{DD} = 28 \text{ Vdc}$, $I_{DQA} = 689 \text{ mA}$, Pulsed CW, 10 $\mu\text{sec}(\text{on})$, 10% Duty Cycle

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Drain Efficiency					
			P1dB					
			$Z_{\text{load}}^{(1)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
2496	4.07 - j10.7	4.07 + j10.0	4.82 - j3.58	19.7	49.9	97	64.0	-19
2590	7.57 - j11.9	6.62 + j11.4	3.74 - j2.51	20.0	49.6	92	62.6	-21
2690	15.7 - j9.50	13.3 + j9.45	3.36 - j2.87	19.9	49.5	90	61.2	-20

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Drain Efficiency					
			P3dB					
			$Z_{\text{load}}^{(2)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
2496	4.07 - j10.7	3.77 + j10.6	4.53 - j2.90	17.8	50.4	111	64.0	-28
2590	7.57 - j11.9	6.80 + j12.2	3.67 - j2.58	18.0	50.3	108	62.7	-29
2690	15.7 - j9.50	15.2 + j9.96	3.36 - j2.87	17.9	50.2	105	61.2	-28

(1) Load impedance for optimum P1dB efficiency.

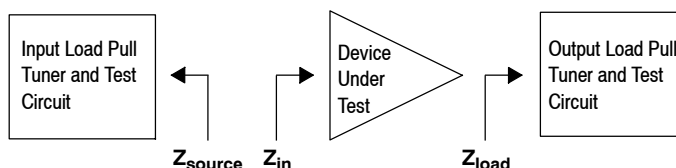
(2) Load impedance for optimum P3dB efficiency.

Z_{source} = Measured impedance presented to the input of the device at the package reference plane.

Z_{in} = Impedance as measured from gate contact to ground.

Z_{load} = Measured impedance presented to the output of the device at the package reference plane.

Figure 11. Carrier Side Load Pull Performance — Maximum Drain Efficiency Tuning



$V_{DD} = 28 \text{ Vdc}$, $V_{GSB} = 0.4 \text{ mA}$, Pulsed CW, 10 $\mu\text{sec}(\text{on})$, 10% Duty Cycle

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Output Power					
			P1dB					
			$Z_{\text{load}}^{(1)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
2496	3.33 - j9.36	3.00 + j9.43	2.00 - j5.09	12.1	53.2	209	54.4	-22
2590	4.98 - j10.4	5.22 + j10.6	2.11 - j5.43	12.2	53.1	203	53.8	-22
2690	10.9 - j8.12	11.3 + j9.48	2.35 - j6.10	12.1	52.9	196	52.8	-20

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Output Power					
			P3dB					
			$Z_{\text{load}}^{(2)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
2496	3.33 - j9.36	3.14 + j9.86	1.99 - j5.35	9.9	53.9	243	54.3	-28
2590	4.98 - j10.4	5.76 + j11.2	2.11 - j5.74	10.0	53.7	236	53.0	-28
2690	10.9 - j8.12	13.0 + j9.24	2.40 - j6.29	10.0	53.5	226	52.5	-26

(1) Load impedance for optimum P1dB power.

(2) Load impedance for optimum P3dB power.

Z_{source} = Measured impedance presented to the input of the device at the package reference plane.

Z_{in} = Impedance as measured from gate contact to ground.

Z_{load} = Measured impedance presented to the output of the device at the package reference plane.

Figure 12. Peaking Side Load Pull Performance — Maximum Power Tuning

$V_{DD} = 28 \text{ Vdc}$, $V_{GSB} = 0.4 \text{ mA}$, Pulsed CW, 10 $\mu\text{sec}(\text{on})$, 10% Duty Cycle

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Drain Efficiency					
			P1dB					
			$Z_{\text{load}}^{(1)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
2496	3.33 - j9.36	2.65 + j9.45	4.22 - j3.35	13.3	51.6	144	64.3	-30
2590	4.98 - j10.4	4.64 + j10.7	3.57 - j3.41	13.4	51.6	145	63.8	-30
2690	10.9 - j8.12	10.5 + j10.4	3.29 - j3.86	13.1	51.6	143	62.4	-27

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Drain Efficiency					
			P3dB					
			$Z_{\text{load}}^{(2)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
2496	3.33 - j9.36	2.81 + j9.82	3.97 - j3.62	11.2	52.3	171	64.6	-38
2590	4.98 - j10.4	5.16 + j11.3	3.50 - j3.54	11.3	52.2	167	63.7	-38
2690	10.9 - j8.12	12.3 + j10.3	3.17 - j3.92	11.1	52.1	163	61.8	-35

(1) Load impedance for optimum P1dB efficiency.

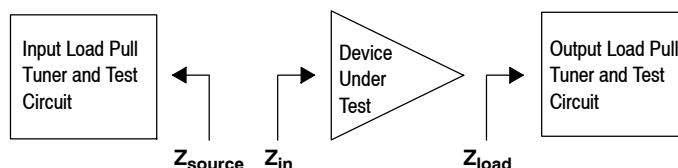
(2) Load impedance for optimum P3dB efficiency.

Z_{source} = Measured impedance presented to the input of the device at the package reference plane.

Z_{in} = Impedance as measured from gate contact to ground.

Z_{load} = Measured impedance presented to the output of the device at the package reference plane.

Figure 13. Peaking Side Load Pull Performance — Maximum Drain Efficiency Tuning



P1dB - TYPICAL CARRIER SIDE LOAD PULL CONTOURS — 2590 MHz

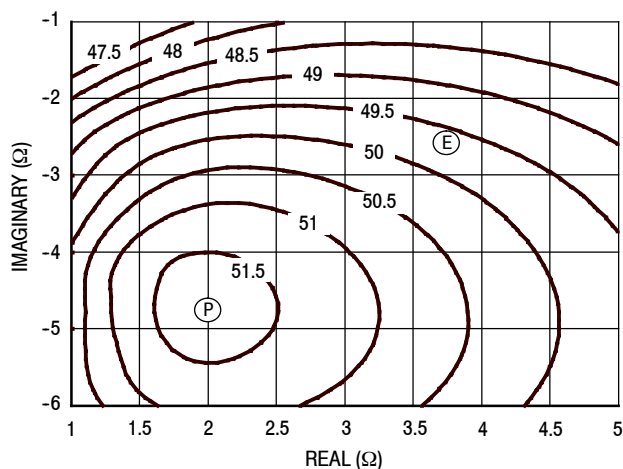


Figure 14. P1dB Load Pull Output Power Contours (dBm)

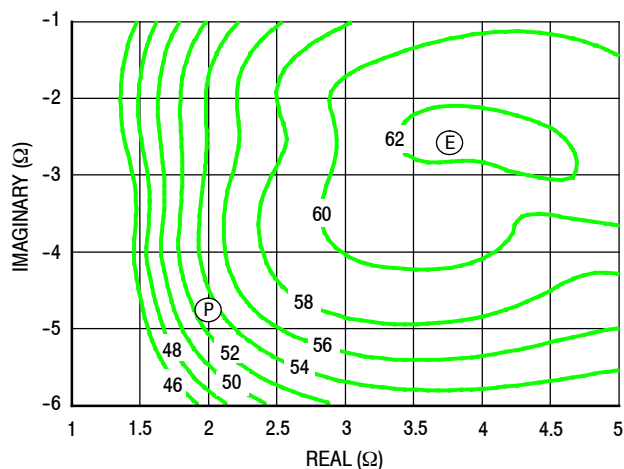


Figure 15. P1dB Load Pull Efficiency Contours (%)

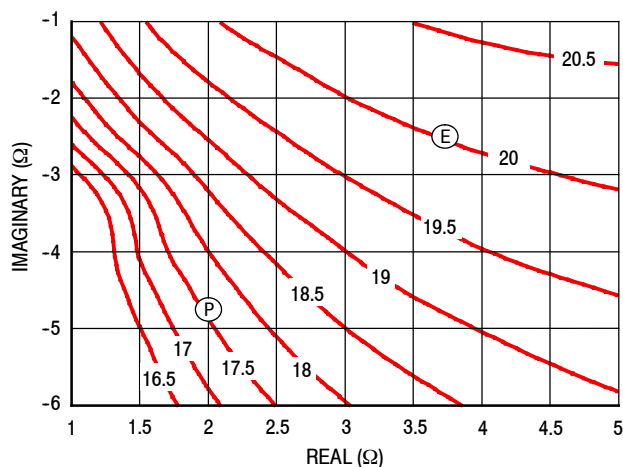


Figure 16. P1dB Load Pull Gain Contours (dB)

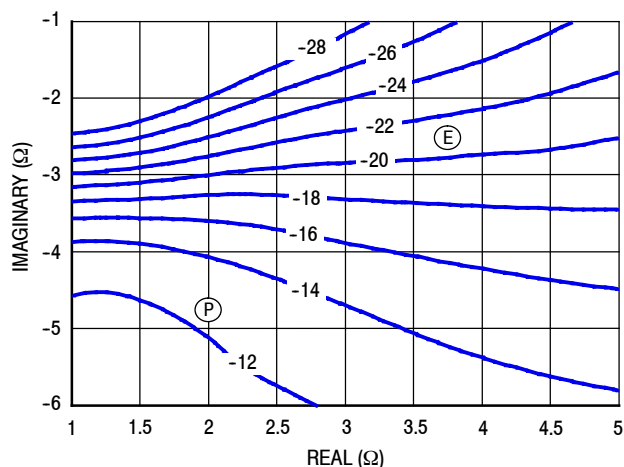


Figure 17. P1dB Load Pull AM/PM Contours (°)

NOTE: (P) = Maximum Output Power

(E) = Maximum Drain Efficiency

- Gain
- Drain Efficiency
- Linearity
- Output Power

P3dB - TYPICAL CARRIER SIDE LOAD PULL CONTOURS — 2590 MHz

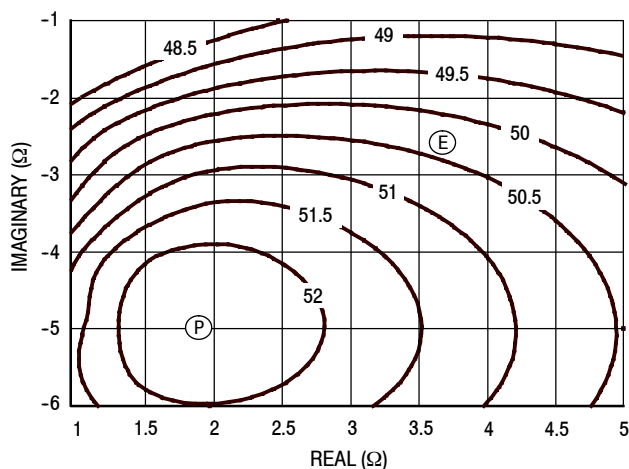


Figure 18. P3dB Load Pull Output Power Contours (dBm)

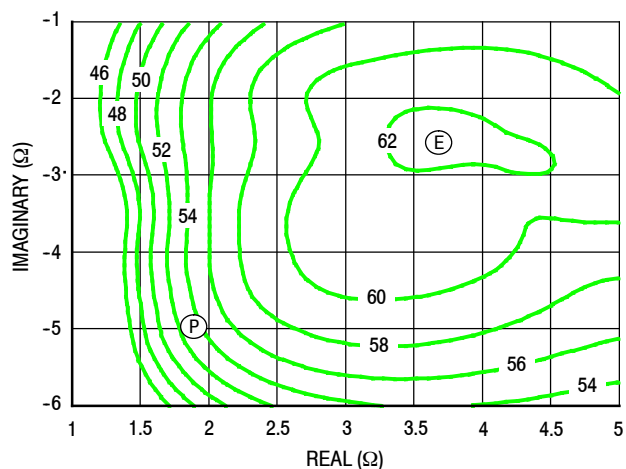


Figure 19. P3dB Load Pull Efficiency Contours (%)

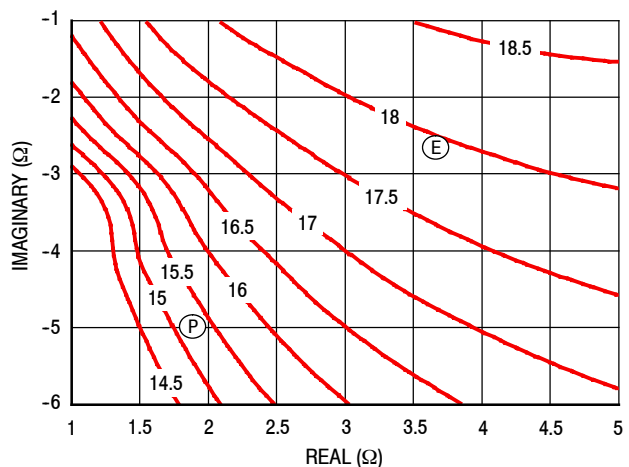


Figure 20. P3dB Load Pull Gain Contours (dB)

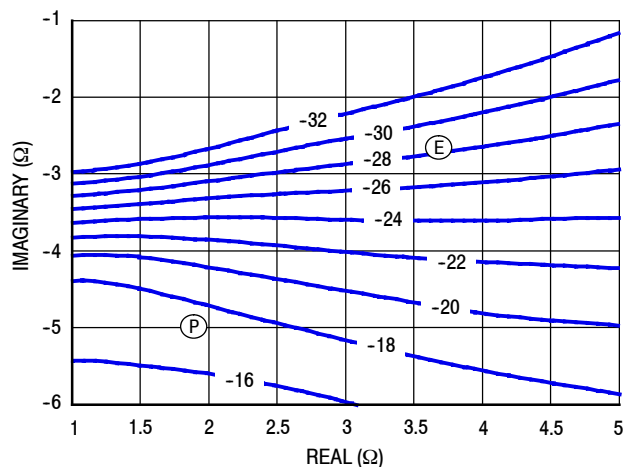


Figure 21. P3dB Load Pull AM/PM Contours (°)

NOTE: (P) = Maximum Output Power
(E) = Maximum Drain Efficiency

- Gain
- Drain Efficiency
- Linearity
- Output Power

P1dB - TYPICAL PEAKING SIDE LOAD PULL CONTOURS — 2590 MHz

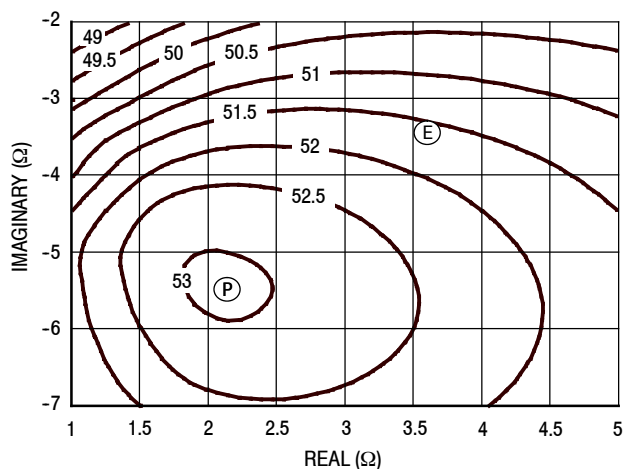


Figure 22. P1dB Load Pull Output Power Contours (dBm)

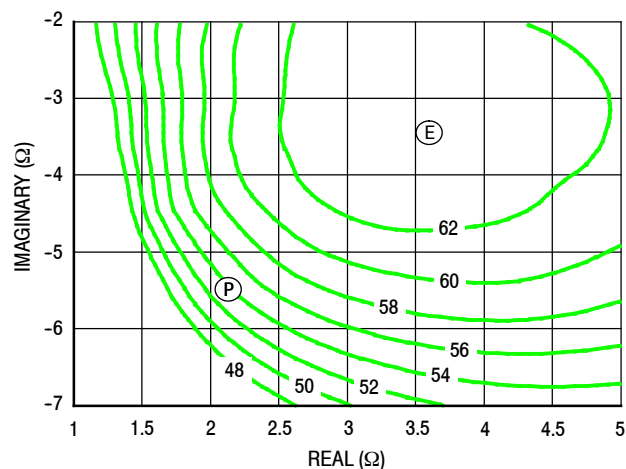


Figure 23. P1dB Load Pull Efficiency Contours (%)

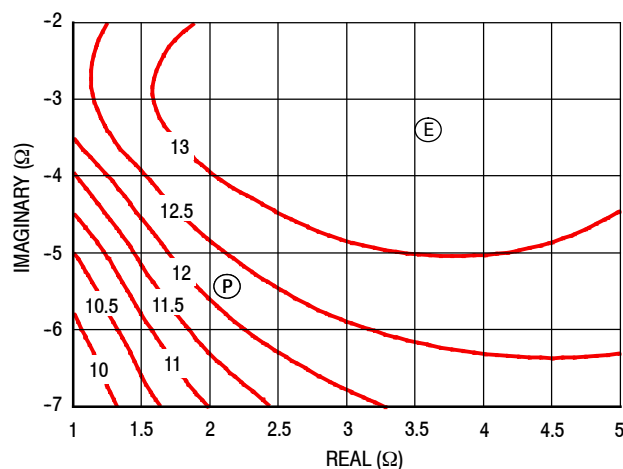


Figure 24. P1dB Load Pull Gain Contours (dB)

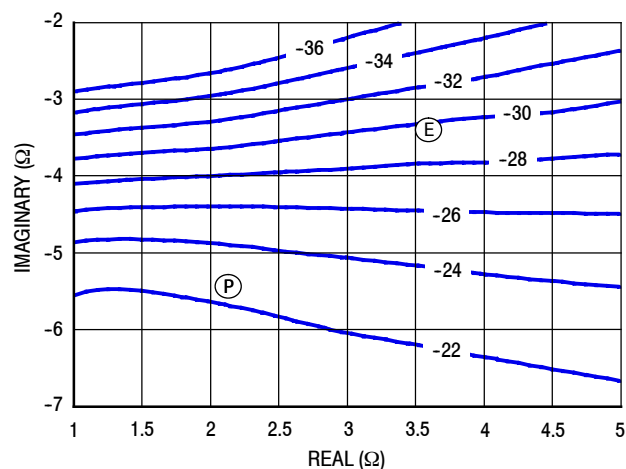


Figure 25. P1dB Load Pull AM/PM Contours (°)

NOTE: (P) = Maximum Output Power
(E) = Maximum Drain Efficiency

- Gain
- Drain Efficiency
- Linearity
- Output Power

P3dB - TYPICAL PEAKING SIDE LOAD PULL CONTOURS — 2590 MHz

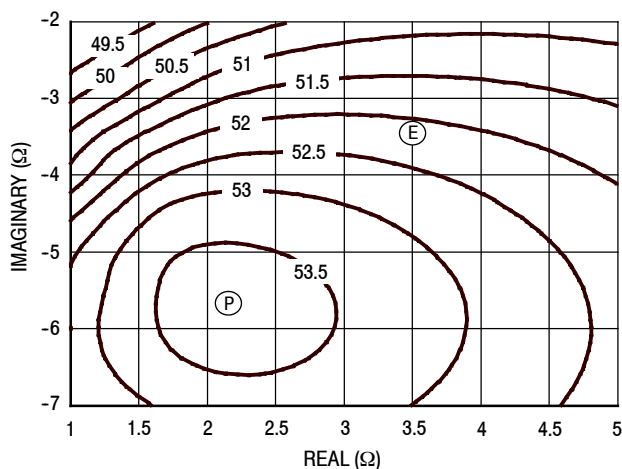


Figure 26. P3dB Load Pull Output Power Contours (dBm)

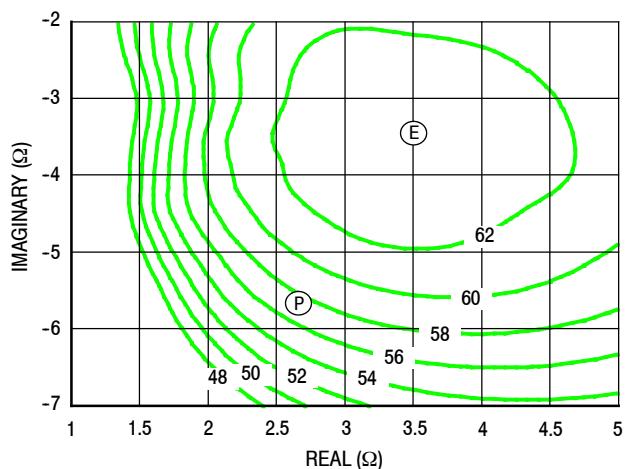


Figure 27. P3dB Load Pull Efficiency Contours (%)

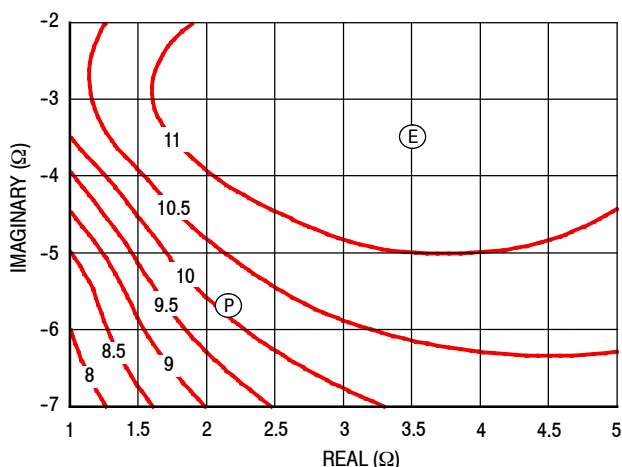


Figure 28. P3dB Load Pull Gain Contours (dB)

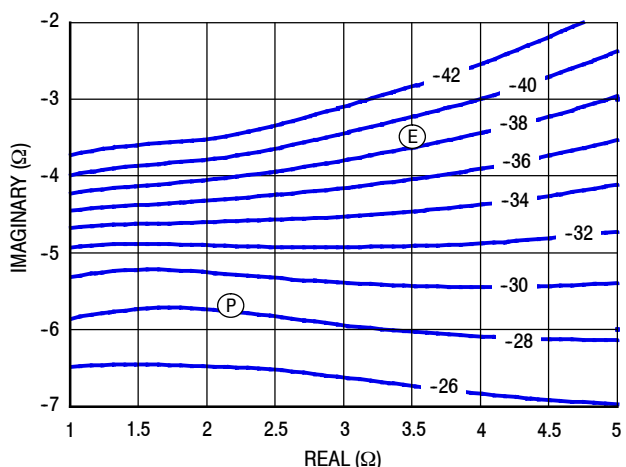
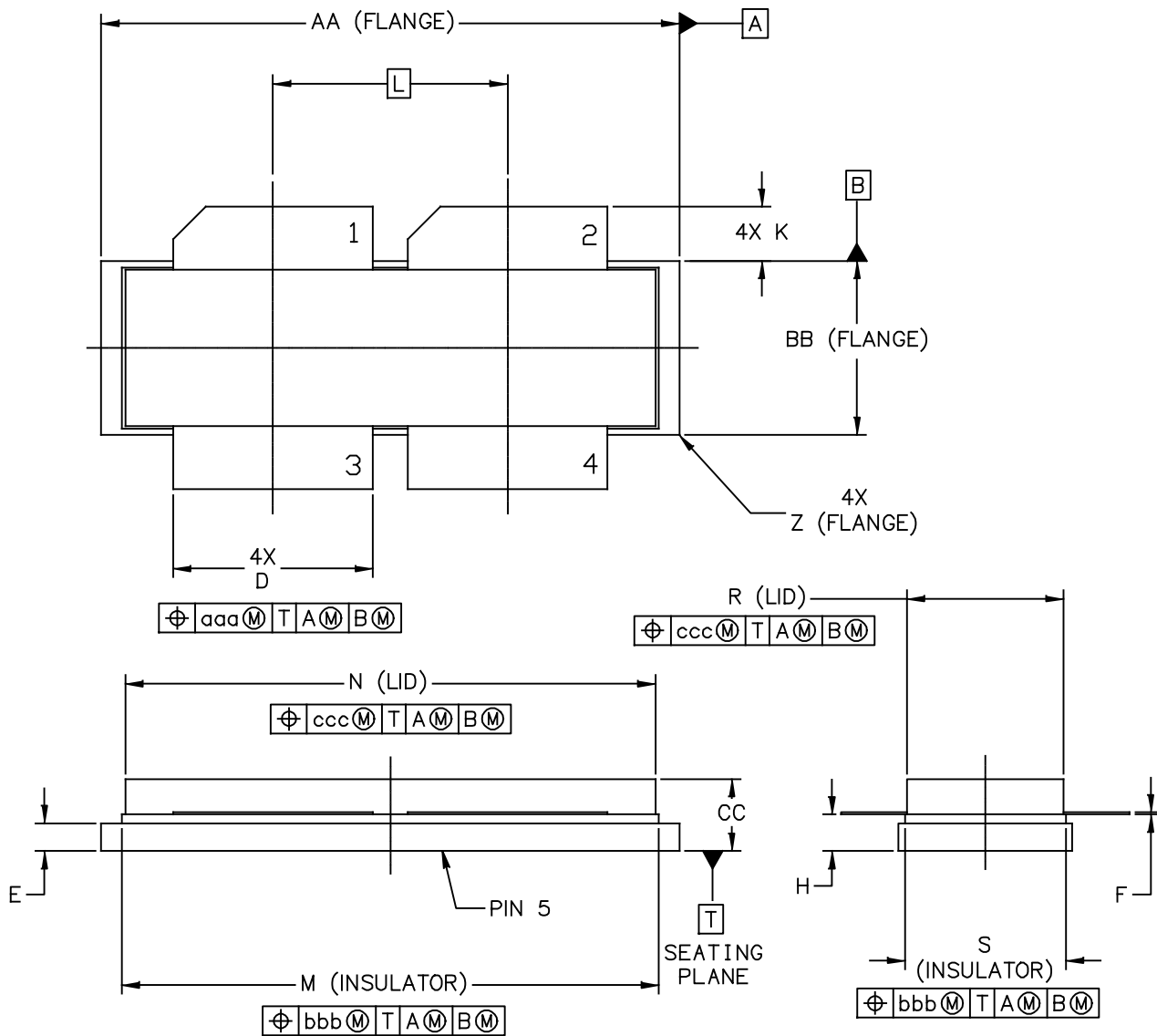


Figure 29. P3dB Load Pull AM/PM Contours (°)

NOTE: (P) = Maximum Output Power
(E) = Maximum Drain Efficiency

- Gain
- Drain Efficiency
- Linearity
- Output Power

PACKAGE DIMENSIONS

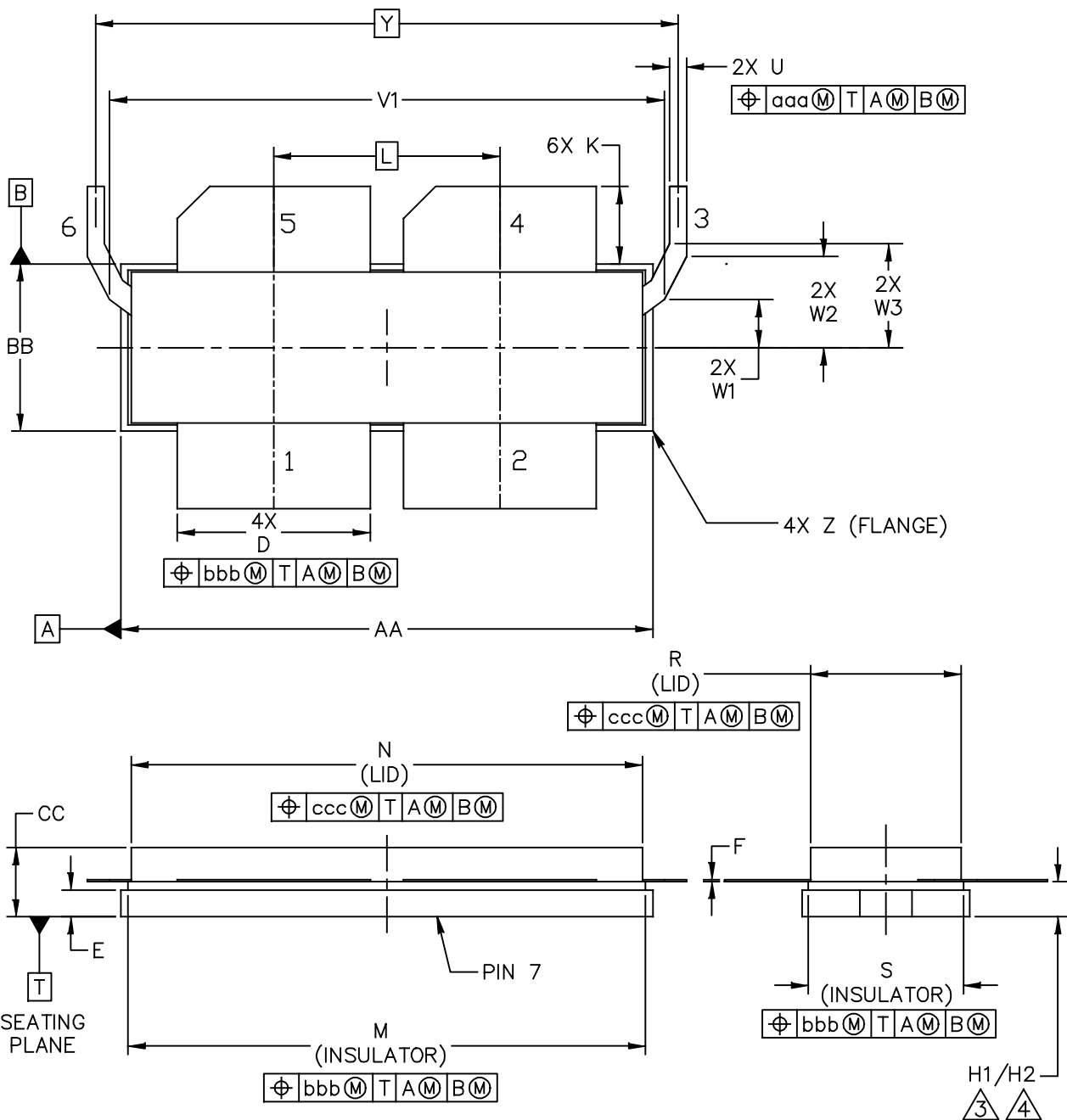


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	STANDARD: NON-JEDEC	
	01 MAR 2013	

NOTES:

1. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M—1994.
2. CONTROLLING DIMENSION: INCH
3. DIMENSION H IS MEASURED .030 INCH (0.762 MM) AWAY FROM PACKAGE BODY

DIM	INCHES		MILLIMETERS		DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX		MIN	MAX	MIN	MAX
AA	1.265	1.275	32.13	32.39	R	.355	.365	9.02	9.27
BB	.395	.405	10.03	10.29	S	.365	.375	9.27	9.53
CC	.170	.190	4.32	4.83	Z	R.000	R.040	R0.00	R1.02
D	.455	.465	11.56	11.81					
E	.062	.066	1.57	1.68	aaa	.013		0.33	
F	.004	.007	0.10	0.18	bbb	.010		0.25	
H	.082	.090	2.08	2.29	ccc	.020		0.51	
K	.117	.137	2.97	3.48					
L	.540 BSC		13.72 BSC						
M	1.219	1.241	30.96	31.52					
N	1.218	1.242	30.94	31.55					
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	STANDARD: NON-JEDEC	
		08 MAR 2013

NOTES:

1. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M–1994.

2. CONTROLLING DIMENSION: INCH

3. DIMENSIONS H1 AND H2 ARE MEASURED .030 INCH (0.762 MM) AWAY FROM FLANGE PARALLEL TO DATUM B. H1 APPLIES TO PINS 1, 2, 4 & 5. H2 APPLIES TO PINS 3 & 6.

4. TOLERANCE OF DIMENSION H2 IS TENTATIVE AND COULD CHANGE ONCE SUFFICIENT MANUFACTURING DATA IS AVAILABLE.

DIM	INCH		MILLIMETER		DIM	INCH		MILLIMETER	
	MIN	MAX	MIN	MAX		MIN	MAX	MIN	MAX
AA	1.265	1.275	32.13	32.39	N	1.218	1.242	30.94	31.55
BB	.395	.405	10.03	10.29	R	.365	.375	9.27	9.53
CC	.170	.190	4.32	4.83	S	.365	.375	9.27	9.53
D	.455	.465	11.56	11.81	U	.035	.045	0.89	1.14
E	.062	.066	1.57	1.68	V1	1.320	1.330	33.53	33.78
F	.004	.007	0.10	0.18	W1	.110	.120	2.79	3.05
H1	.082	.090	2.08	2.29	W2	.213	.223	5.41	5.66
H2	.078	.094	1.98	2.39	W3	.243	.253	6.17	6.43
K	.175	.195	4.45	4.95	Y	1.390 BSC		35.31 BSC	
L	.540 BSC		13.72 BSC		Z	R.000	R.040	R0.00	R1.02
M	1.219	1.241	30.96	31.52	aaa	.015		0.38	
					bbb	.010		0.25	
					ccc	.020		0.51	
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					STANDARD: NON-JEDEC				
					08 MAR 2013				

PRODUCT DOCUMENTATION, SOFTWARE AND TOOLS

Refer to the following documents, software and tools to aid your design process.

Application Notes

- AN1955: Thermal Measurement Methodology of RF Power Amplifiers

Engineering Bulletins

- EB212: Using Data Sheet Impedances for RF LDMOS Devices

Software

- Electromigration MTTF Calculator
- RF High Power Model
- .s2p File

Development Tools

- Printed Circuit Boards

For Software and Tools, do a Part Number search at <http://www.freescale.com>, and select the "Part Number" link. Go to the Software & Tools tab on the part's Product Summary page to download the respective tool.

REVISION HISTORY

The following table summarizes revisions to this document.

Revision	Date	Description
0	Nov. 2013	• Initial Release of Data Sheet

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