



RF Power LDMOS Transistor

N-Channel Enhancement-Mode Lateral MOSFET

This 87 W asymmetrical Doherty RF power LDMOS transistor is designed for cellular base station applications requiring very wide instantaneous bandwidth capability covering the frequency range of 1805 to 1880 MHz.

1800 MHz

- Typical Doherty Single-Carrier W-CDMA Performance: $V_{DD} = 31.5$ Vdc, $I_{DQA} = 1080$ mA, $V_{GSB} = 0.25$ Vdc, $P_{out} = 87$ W Avg., Input Signal PAR = 9.9 dB @ 0.01% Probability on CCDF.

Frequency	G_{ps} (dB)	η_D (%)	Output PAR (dB)	ACPR (dBc)
1805 MHz	14.5	48.1	8.1	-32.7
1840 MHz	15.2	48.2	8.1	-33.0
1880 MHz	15.9	48.4	8.0	-33.8

Features

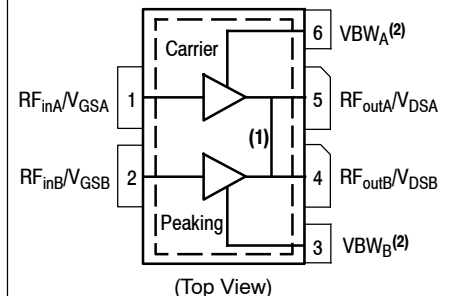
- Advanced High Performance In-Package Doherty
- High Thermal Conductivity Packaging Technology for Reduced Thermal Resistance
- Designed for Wide Instantaneous Bandwidth Applications
- Greater Negative Gate-Source Voltage Range for Improved Class C Operation
- Able to Withstand Extremely High Output VSWR and Broadband Operating Conditions
- Designed for Digital Predistortion Error Correction Systems

A2T18H455W23NR6

**1805–1880 MHz, 87 W AVG., 31.5 V
 AIRFAST RF POWER LDMOS
 TRANSISTOR**



**OM-1230-4L2S
 PLASTIC**



Note: Exposed backside of the package is the source terminal for the transistors.

Figure 1. Pin Connections

1. Pin connections 4 and 5 are DC coupled and RF independent.
2. Device cannot operate with V_{DD} current supplied through pin 3 and pin 6.



Table 1. Maximum Ratings

Rating	Symbol	Value	Unit
Drain-Source Voltage	V_{DSS}	-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	°C
Operating Junction Temperature Range (1,2)	T_J	-40 to +225	°C

Table 2. Thermal Characteristics

Characteristic	Symbol	Value (2,3)	Unit
Thermal Resistance, Junction to Case Case Temperature 77°C, 87 W Avg., W-CDMA, 31.5 Vdc, $I_{DQA} = 1080$ mA, $V_{GSB} = 0.25$ Vdc, 1840 MHz	$R_{\theta JC}$	0.23	°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. Moisture Sensitivity Level

Test Methodology	Rating	Package Peak Temperature	Unit
Per JESD22-A113, IPC/JEDEC J-STD-020	3	260	°C

Table 5. Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
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Off Characteristics (4)

Zero Gate Voltage Drain Leakage Current ($V_{DS} = 65$ Vdc, $V_{GS} = 0$ Vdc)	I_{DSS}	—	—	10	μAdc
Zero Gate Voltage Drain Leakage Current ($V_{DS} = 32$ Vdc, $V_{GS} = 0$ Vdc)	I_{DSS}	—	—	5	μAdc
Gate-Source Leakage Current ($V_{GS} = 5$ Vdc, $V_{DS} = 0$ Vdc)	I_{GSS}	—	—	1	μAdc

On Characteristics - Side A, Carrier

Gate Threshold Voltage ($V_{DS} = 10$ Vdc, $I_D = 200$ μAdc)	$V_{GS(th)}$	1.05	1.2	2.2	Vdc
Gate Quiescent Voltage ($V_{DD} = 31.5$ Vdc, $I_{DA} = 1080$ mAdc, Measured in Functional Test)	$V_{GSA(Q)}$	2.1	2.5	2.9	Vdc
Drain-Source On-Voltage ($V_{GS} = 10$ Vdc, $I_D = 2.0$ Adc)	$V_{DS(on)}$	0.05	0.15	0.3	Vdc

On Characteristics - Side B, Peaking

Gate Threshold Voltage ($V_{DS} = 10$ Vdc, $I_D = 300$ μAdc)	$V_{GS(th)}$	0.8	1.2	1.6	Vdc
Drain-Source On-Voltage ($V_{GS} = 10$ Vdc, $I_D = 3$ Adc)	$V_{DS(on)}$	0.05	0.15	0.3	Vdc

1. Continuous use at maximum temperature will affect MTTF.
2. MTTF calculator available at <http://www.nxp.com/RF/calculators>.
3. Refer to AN1955, *Thermal Measurement Methodology of RF Power Amplifiers*. Go to <http://www.nxp.com/RF> and search for AN1955.
4. Each side of device measured separately.

(continued)

Table 5. Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted) (continued)

Characteristic	Symbol	Min	Typ	Max	Unit
Functional Tests — 1805 MHz (1,2,3) (In Freescale Doherty Test Fixture, 50 ohm system) $V_{DD} = 31.5\text{ Vdc}$, $I_{DQA} = 1080\text{ mA}$, $V_{GSB} = 0.25\text{ Vdc}$, $P_{out} = 87\text{ W Avg.}$, $f = 1805\text{ MHz}$, 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}	14.0	14.5	17.0	dB
Drain Efficiency	η_D	43.0	48.1	—	%
Output Peak-to-Average Ratio @ 0.01% Probability on CCDF	PAR	7.3	8.1	—	dB
Adjacent Channel Power Ratio	ACPR	—	-32.7	-29.0	dBc

Functional Tests — 1880 MHz (1,2,3) (In Freescale Doherty Test Fixture, 50 ohm system) $V_{DD} = 31.5\text{ Vdc}$, $I_{DQA} = 1080\text{ mA}$, $V_{GSB} = 0.25\text{ Vdc}$, $P_{out} = 87\text{ W Avg.}$, $f = 1880\text{ MHz}$, 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}	14.0	15.9	17.0	dB
Drain Efficiency	η_D	43.0	48.4	—	%
Output Peak-to-Average Ratio @ 0.01% Probability on CCDF	PAR	7.3	8.0	—	dB
Adjacent Channel Power Ratio	ACPR	—	-33.8	-29.0	dBc

Load Mismatch (3) (In Freescale Doherty Test Fixture, 50 ohm system) $I_{DQA} = 1080\text{ mA}$, $V_{GSB} = 0.25\text{ Vdc}$, $f = 1840\text{ MHz}$

VSWR 10:1 at 32 Vdc, 575 W CW Output Power (3 dB Input Overdrive from 417 W CW Rated Power)	No Device Degradation
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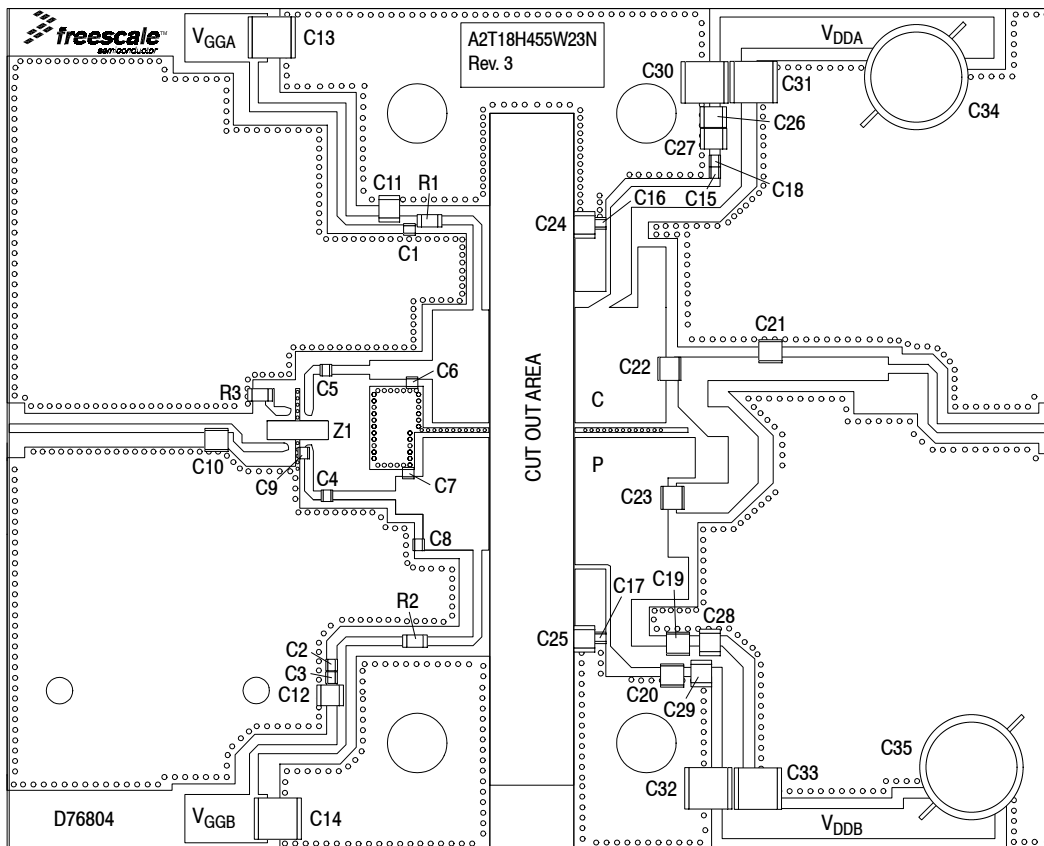
Typical Performance (3) (In Freescale Doherty Test Fixture, 50 ohm system) $V_{DD} = 31.5\text{ Vdc}$, $I_{DQA} = 1080\text{ mA}$, $V_{GSB} = 0.25$, 1805–1880 MHz Bandwidth

P_{out} @ 1 dB Compression Point, CW	P1dB	—	436	—	W
P_{out} @ 3 dB Compression Point (4)	P3dB	—	589	—	W
AM/PM (Maximum value measured at the P3dB compression point across the 1805–1880 MHz frequency range)	Φ	—	-21	—	$^\circ$
VBW Resonance Point (IMD Third Order Intermodulation Inflection Point)	VBW_{res}	—	140	—	MHz
Gain Flatness in 75 MHz Bandwidth @ $P_{out} = 87\text{ W Avg.}$	G_F	—	1.4	—	dB
Gain Variation over Temperature (-30°C to +85°C)	ΔG	—	0.012	—	dB/°C
Output Power Variation over Temperature (-30°C to +85°C)	$\Delta P1dB$	—	0.007	—	dB/°C

Table 6. Ordering Information

Device	Tape and Reel Information	Package
A2T18H455W23NR6	R6 Suffix = 150 Units, 56 mm Tape Width, 13-inch Reel	OM-1230-4L2S

- V_{DDA} and V_{ddb} must be tied together and powered by a single DC power supply.
- Part internally matched both on input and output.
- Measurements made with device in an asymmetrical Doherty configuration.
- $P3dB = P_{avg} + 7.0\text{ dB}$ 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 1. A2T18H455W23NR6 Test Circuit Component Layout

Table 7. A2T18H455W23NR6 Test Circuit Component Designations and Values

Part	Description	Part Number	Manufacturer
C1, C2, C3, C4, C5, C15, C16, C17, C18	10 pF Chip Capacitors	GQM2195C2E100JB12D	Murata
C6	1 pF Chip Capacitor	GQM2195C2E1R0BB12D	Murata
C7	2.4 pF Chip Capacitor	GQM2195C2E2R4BB12D	Murata
C8	0.7 pF Chip Capacitor	GQM2195C2ER70BB12D	Murata
C9	1.3 pF Chip Capacitor	GQM2195C2E1R3BB12D	Murata
C10	0.2 pF Chip Capacitor	800B0R2BT500XT	ATC
C11, C12, C24, C25, C26, C27, C28, C29	10 μ F Chip Capacitors	GRM32ER61H106KA12L	Murata
C13, C14, C30, C31, C32, C33	10 μ F Chip Capacitors	C5750X7S2A106M230KE	TDK
C19, C20	10 pF Chip Capacitors	ATC800B100JT500XT	ATC
C21	0.3 pF Chip Capacitor	ATC800B0R3BT500XT	ATC
C22	6.8 pF Chip Capacitor	ATC800B6R8BT500XT	ATC
C23	8.2 pF Chip Capacitor	ATC800B8R2BT500XT	ATC
C34, C35	470 μ F, 63 V Electrolytic Capacitors	MCGPR63V477M13X26	Multicomp
R1, R2	3.3 Ω , 1/8 W Chip Resistors	WCR0805-3R3FI	Welwyn
R3	50 Ω , 10 W Termination	060120A25X50-2	Anaren
Z1	1800–2200 MHz Band, 90°, 2 dB Doherty Coupler	X3C20F1-02S	Anaren
PCB	Rogers RO4350B, 0.020", $\epsilon_r = 3.66$	D76804	MTL

TYPICAL CHARACTERISTICS — 1805–1880 MHz

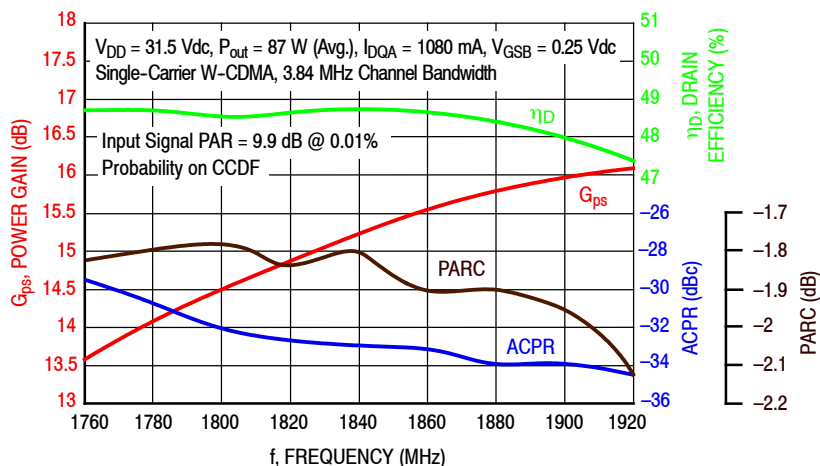


Figure 2. Single-Carrier Output Peak-to-Average Ratio Compression (PARC) Broadband Performance @ $P_{out} = 87$ Watts Avg.

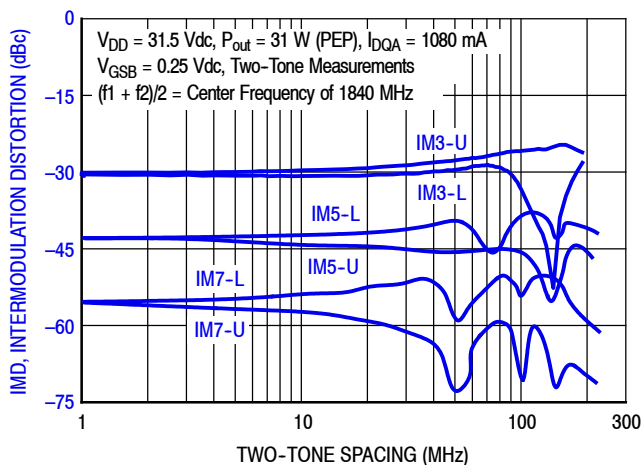


Figure 3. Intermodulation Distortion Products versus Two-Tone Spacing

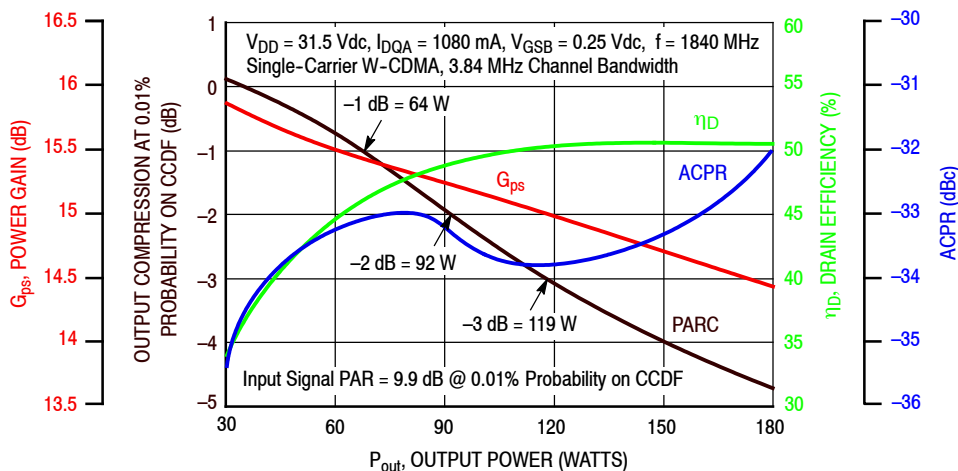


Figure 4. Output Peak-to-Average Ratio Compression (PARC) versus Output Power

TYPICAL CHARACTERISTICS — 1805–1880 MHz

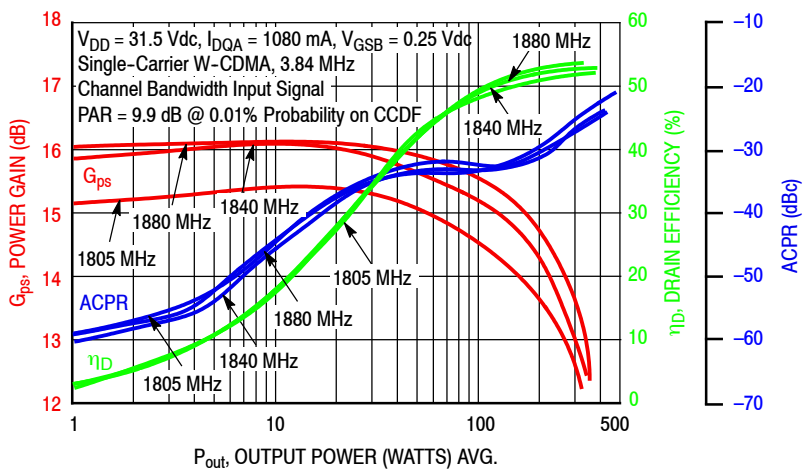


Figure 5. Single-Carrier W-CDMA Power Gain, Drain Efficiency and ACPR versus Output Power

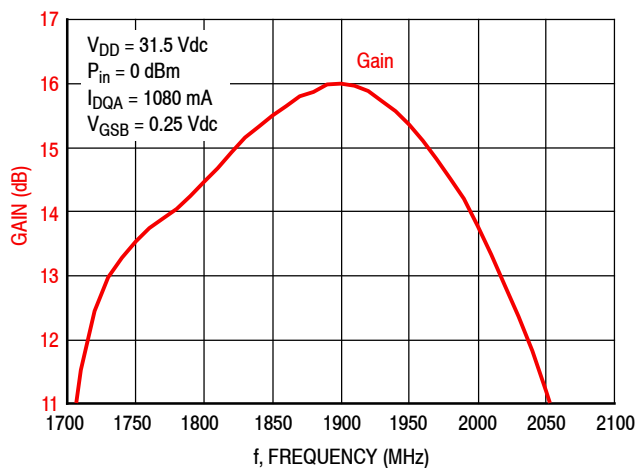


Figure 6. Broadband Frequency Response

Table 8. Carrier Side Load Pull Performance — Maximum Power Tuning

$V_{DD} = 31.5$ Vdc, $I_{DQA} = 758$ mA, Pulsed CW, 10 μ sec(on), 10% Duty Cycle

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Output Power					
			P1dB					
			$Z_{load}^{(1)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
1800	1.95 – j6.68	2.39 + j6.81	1.02 – j2.85	17.3	52.6	184	53.9	–14
1840	2.49 – j7.21	3.13 + j7.24	0.88 – j3.16	16.9	52.7	185	50.5	–14
1880	3.51 – j8.21	4.17 + j7.60	0.84 – j3.24	17.2	52.6	183	50.3	–16

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Output Power					
			P3dB					
			$Z_{load}^{(2)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
1800	1.95 – j6.68	2.26 + j7.13	0.96 – j3.04	14.9	53.4	218	53.0	–19
1840	2.49 – j7.21	2.98 + j7.75	0.88 – j3.24	14.8	53.4	219	51.4	–20
1880	3.51 – j8.21	4.21 + j8.41	0.84 – j3.36	15.0	53.3	214	50.4	–21

(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.

Table 9. Carrier Side Load Pull Performance — Maximum Drain Efficiency Tuning

$V_{DD} = 31.5$ Vdc, $I_{DQA} = 758$ mA, Pulsed CW, 10 μ sec(on), 10% Duty Cycle

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Drain Efficiency					
			P1dB					
			$Z_{load}^{(1)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
1800	1.95 – j6.68	2.33 + j7.08	2.57 – j1.37	20.3	49.8	96	66.7	–22
1840	2.49 – j7.21	3.15 + j7.49	2.25 – j1.61	20.2	49.9	97	65.2	–22
1880	3.51 – j8.21	3.93 + j6.87	1.87 – j2.06	20.1	50.2	106	62.9	–24

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Drain Efficiency					
			P3dB					
			$Z_{load}^{(2)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
1800	1.95 – j6.68	2.29 + j7.35	2.51 – j1.37	18.3	50.5	112	66.1	–30
1840	2.49 – j7.21	3.04 + j7.85	1.93 – j1.94	17.9	51.2	132	65.0	–28
1880	3.51 – j8.21	3.86 + j7.31	1.82 – j2.29	17.9	51.3	135	62.3	–31

(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.

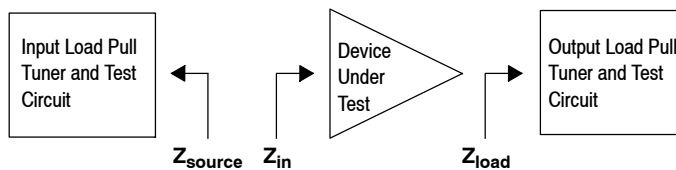


Table 10. Peaking Side Load Pull Performance — Maximum Power Tuning

$V_{DD} = 31.5$ Vdc, $V_{GSB} = 0$ Vdc, Pulsed CW, 10 μ sec(on), 10% Duty Cycle

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Output Power					
			P1dB					
			$Z_{load}^{(1)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
1800	0.99 – j5.23	0.91 + j5.01	1.00 – j2.79	12.9	54.9	309	49.8	–27
1840	1.13 – j5.22	1.04 + j5.21	0.98 – j2.99	13.4	54.9	307	49.6	–28
1880	1.24 – j5.77	1.24 + j5.52	0.98 – j3.11	13.5	54.9	312	50.1	–33

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Output Power					
			P3dB					
			$Z_{load}^{(2)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
1800	0.99 – j5.23	0.90 + j5.14	1.04 – j2.95	10.8	55.6	365	52.8	–34
1840	1.13 – j5.22	1.05 + j5.37	1.03 – j3.11	11.3	55.6	363	52.6	–35
1880	1.24 – j5.77	1.27 + j5.73	1.03 – j3.24	11.5	55.6	366	52.7	–40

(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.

Table 11. Peaking Side Load Pull Performance — Maximum Drain Efficiency Tuning

$V_{DD} = 31.5$ Vdc, $V_{GSB} = 0$ Vdc, Pulsed CW, 10 μ sec(on), 10% Duty Cycle

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Drain Efficiency					
			P1dB					
			$Z_{load}^{(1)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
1800	0.99 – j5.23	0.83 + j5.01	2.93 – j2.55	14.2	53.5	223	62.9	–34
1840	1.13 – j5.22	0.92 + j5.19	2.66 – j2.09	14.8	53.3	212	62.9	–36
1880	1.24 – j5.77	1.10 + j5.49	2.13 – j2.13	14.8	53.5	226	63.1	–39

f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Drain Efficiency					
			P3dB					
			$Z_{load}^{(2)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM ($^\circ$)
1800	0.99 – j5.23	0.84 + j5.13	2.93 – j2.72	12.2	54.0	252	61.8	–43
1840	1.13 – j5.22	0.95 + j5.35	2.72 – j2.18	12.7	53.8	239	61.9	–46
1880	1.24 – j5.77	1.15 + j5.70	2.37 – j2.18	12.8	53.9	247	62.5	–50

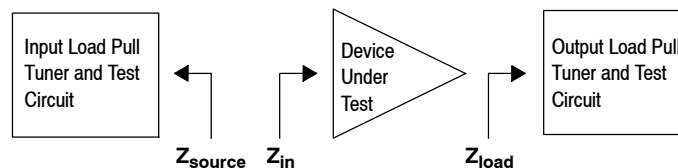
(1) Load impedance for optimum P1dB efficiency.

(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.



P1dB - TYPICAL CARRIER SIDE LOAD PULL CONTOURS — 1840 MHz

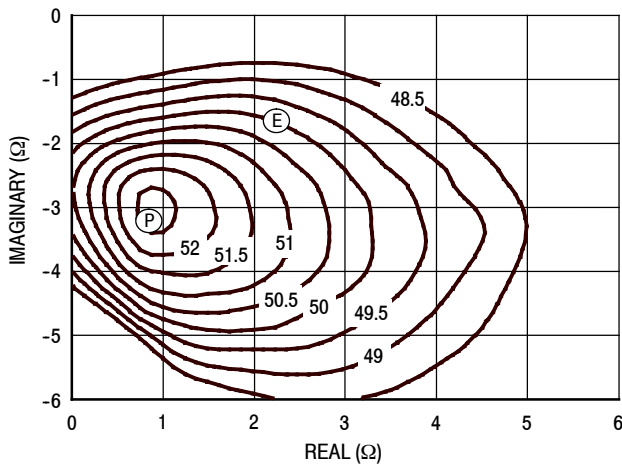


Figure 7. P1dB Load Pull Output Power Contours (dBm)

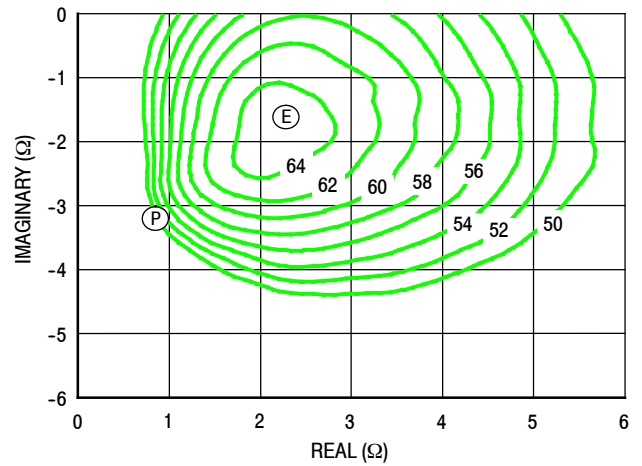


Figure 8. P1dB Load Pull Efficiency Contours (%)

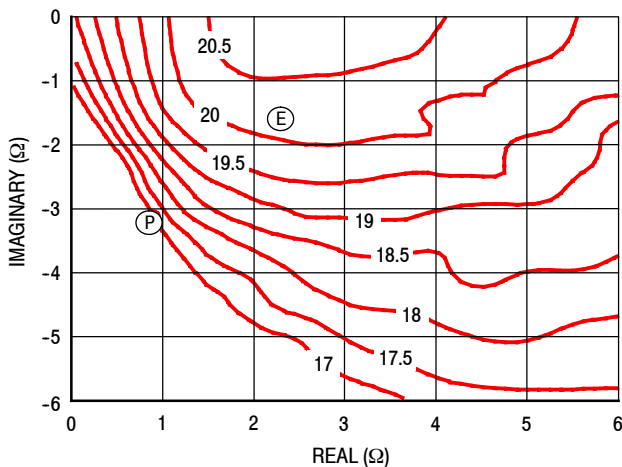


Figure 9. P1dB Load Pull Gain Contours (dB)

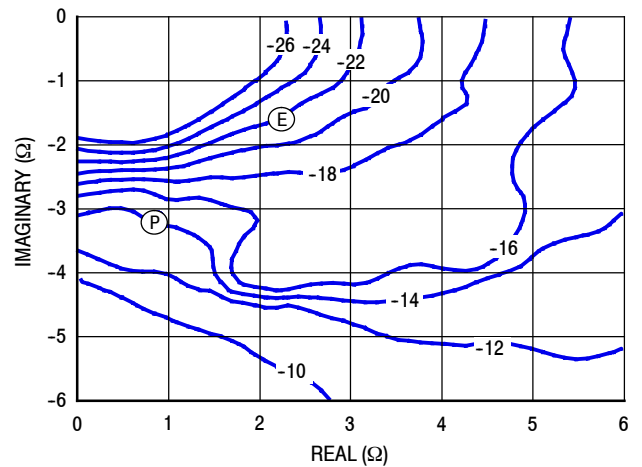


Figure 10. P1dB Load Pull AM/PM Contours (°)

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

- Gain
- Drain Efficiency
- Linearity
- Output Power

P3dB - TYPICAL CARRIER SIDE LOAD PULL CONTOURS — 1840 MHz

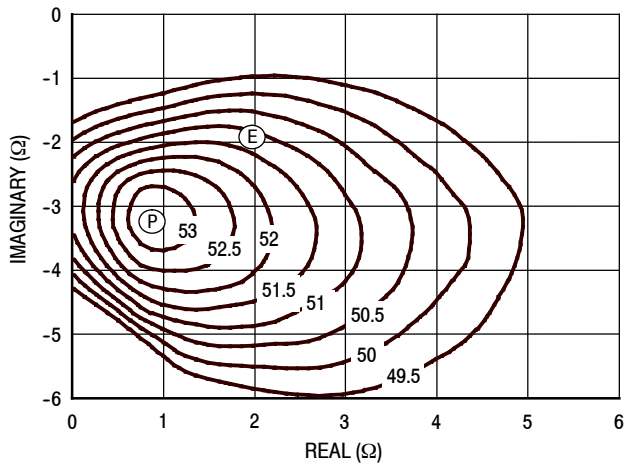


Figure 11. P3dB Load Pull Output Power Contours (dBm)

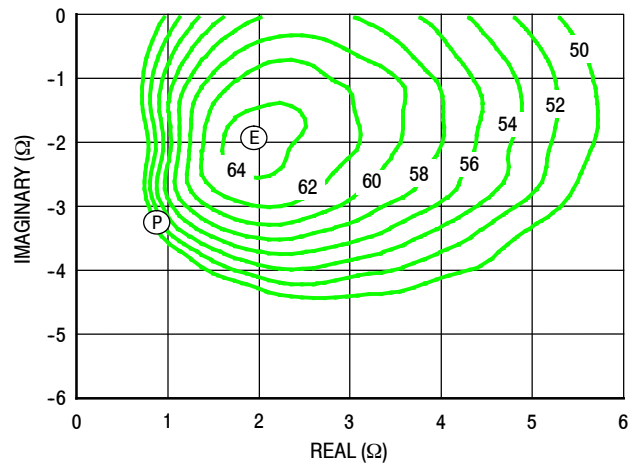


Figure 12. P3dB Load Pull Efficiency Contours (%)

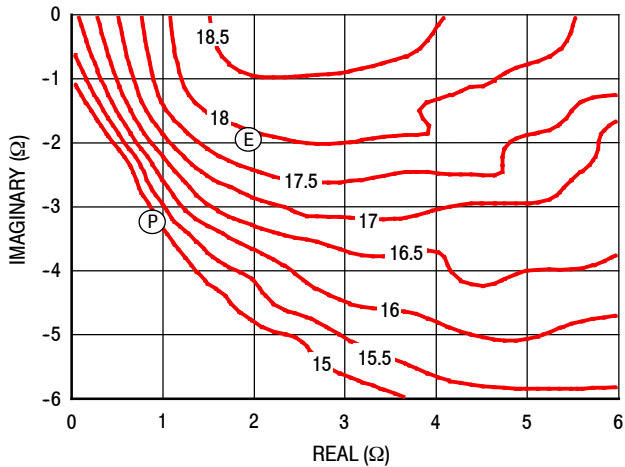


Figure 13. P3dB Load Pull Gain Contours (dB)

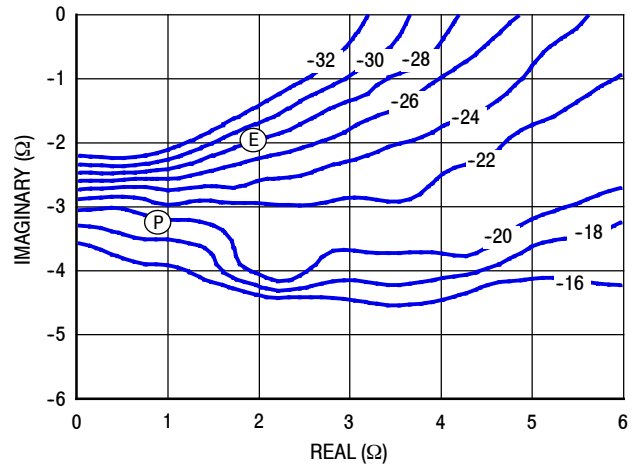


Figure 14. P3dB Load Pull AM/PM Contours (°)

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

- Gain
- Drain Efficiency
- Linearity
- Output Power

P1dB - TYPICAL PEAKING SIDE LOAD PULL CONTOURS — 1840 MHz

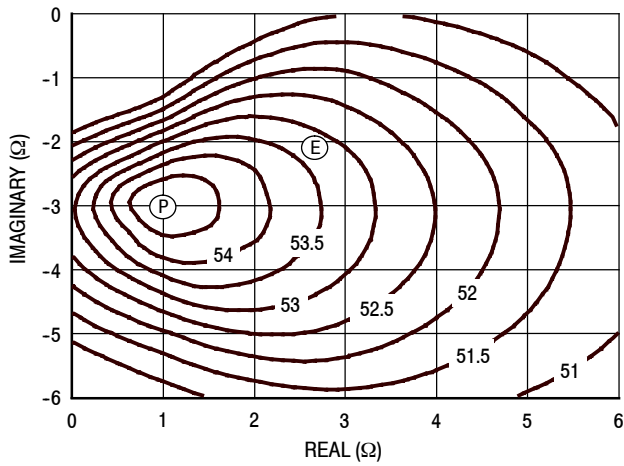


Figure 15. P1dB Load Pull Output Power Contours (dBm)

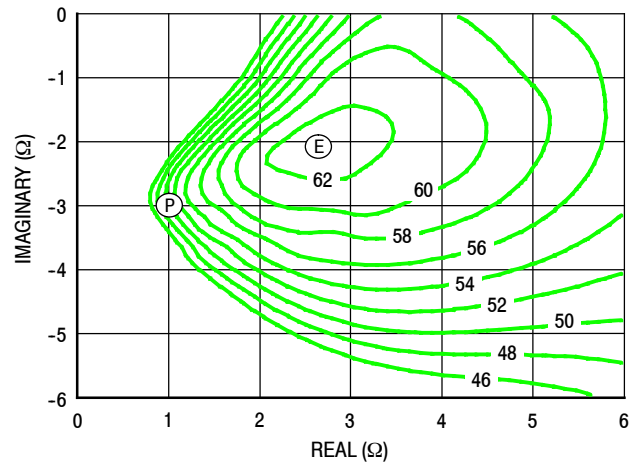


Figure 16. P1dB Load Pull Efficiency Contours (%)

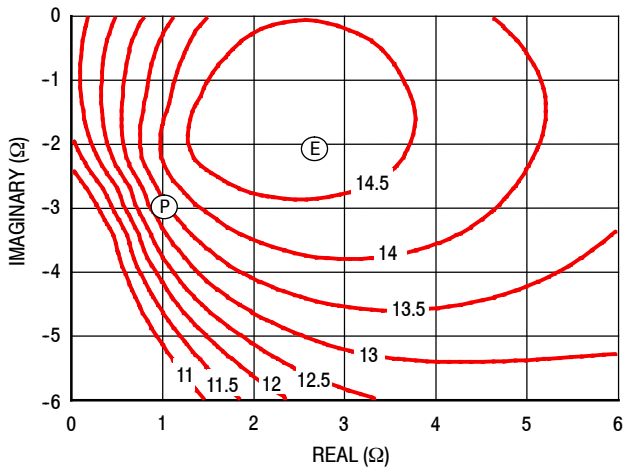


Figure 17. P1dB Load Pull Gain Contours (dB)

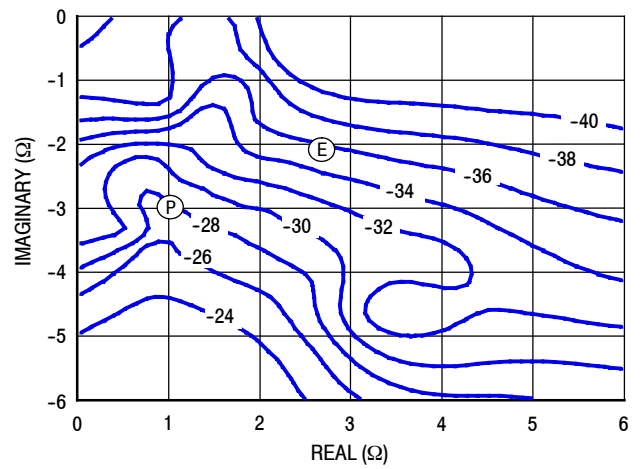


Figure 18. P1dB Load Pull AM/PM Contours (°)

NOTE: (P) = Maximum Output Power

(E) = Maximum Drain Efficiency

- Gain
- Drain Efficiency
- Linearity
- Output Power

P3dB - TYPICAL PEAKING SIDE LOAD PULL CONTOURS — 1840 MHz

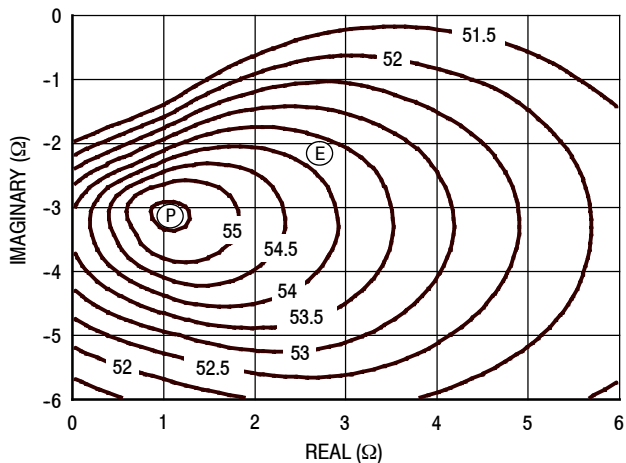


Figure 19. P3dB Load Pull Output Power Contours (dBm)

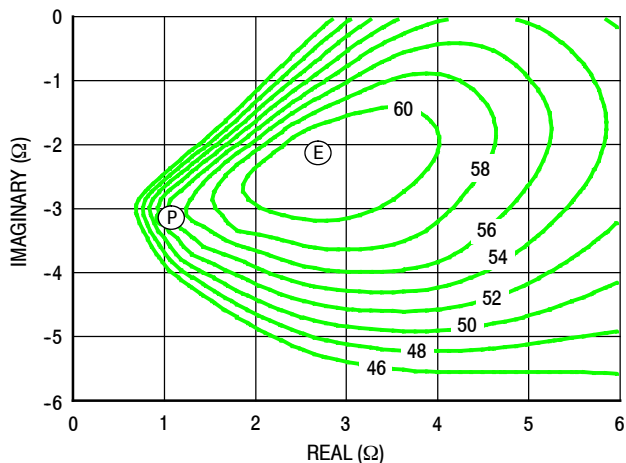


Figure 20. P3dB Load Pull Efficiency Contours (%)

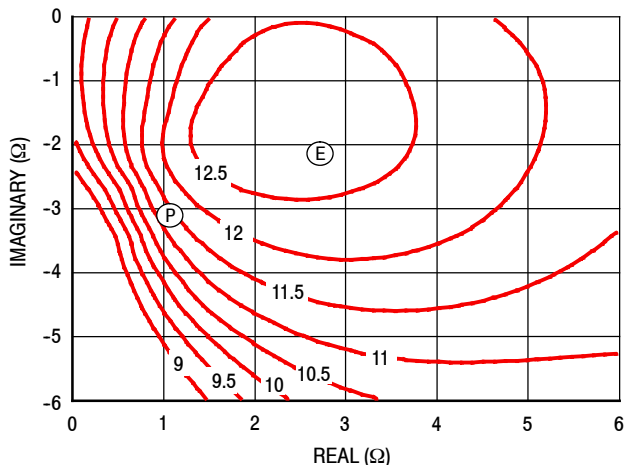


Figure 21. P3dB Load Pull Gain Contours (dB)

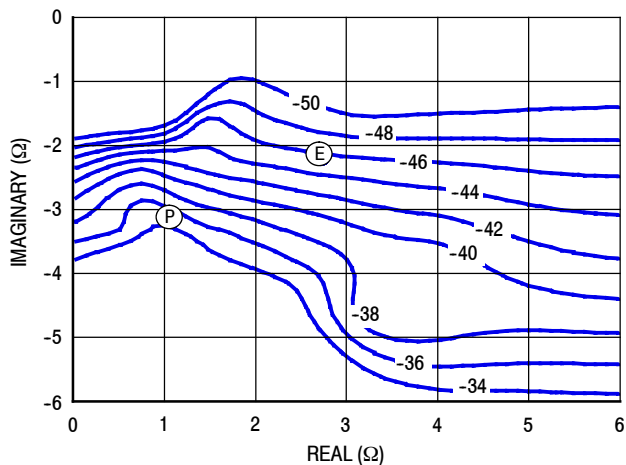
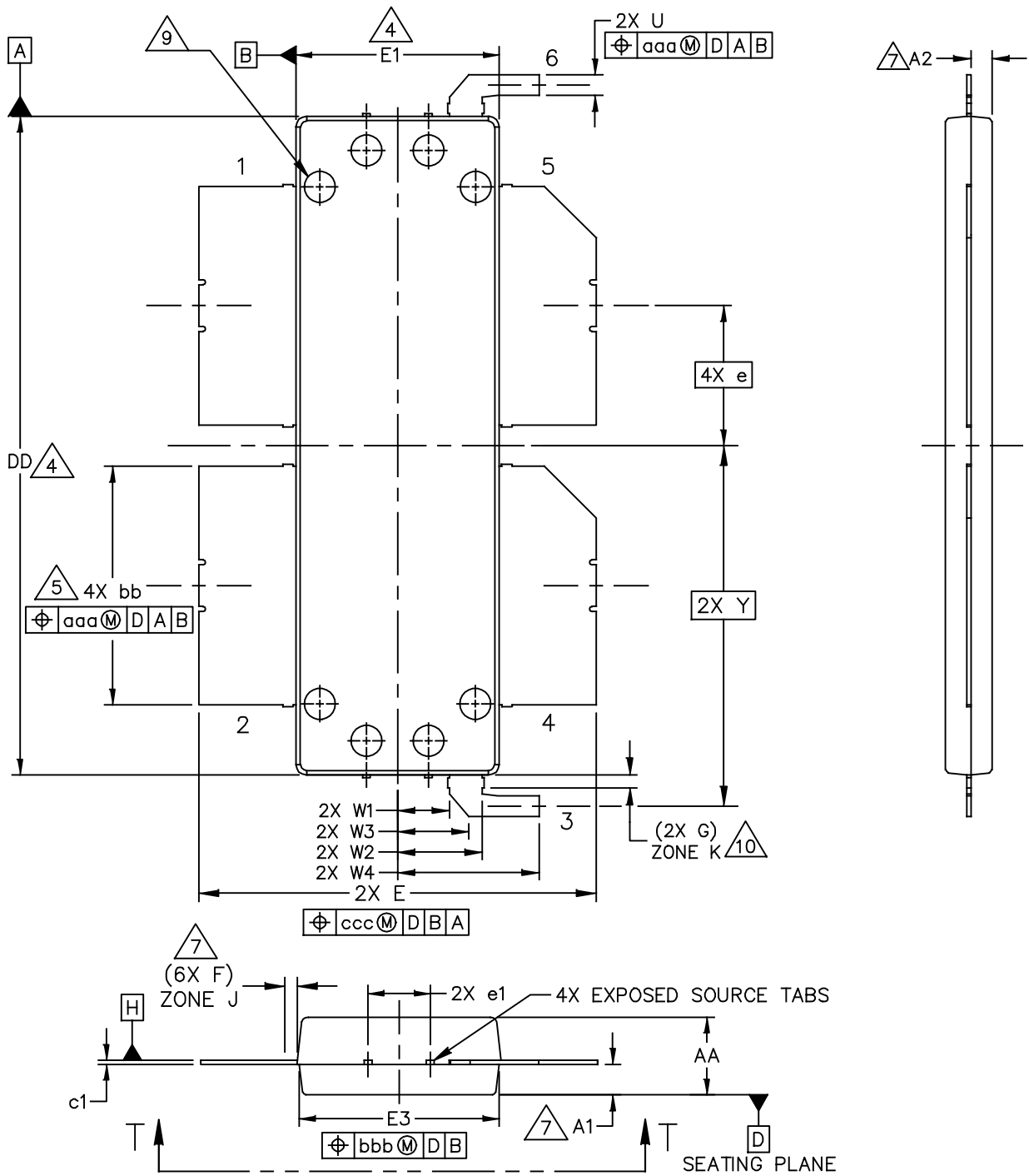


Figure 22. P3dB Load Pull AM/PM Contours (°)

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

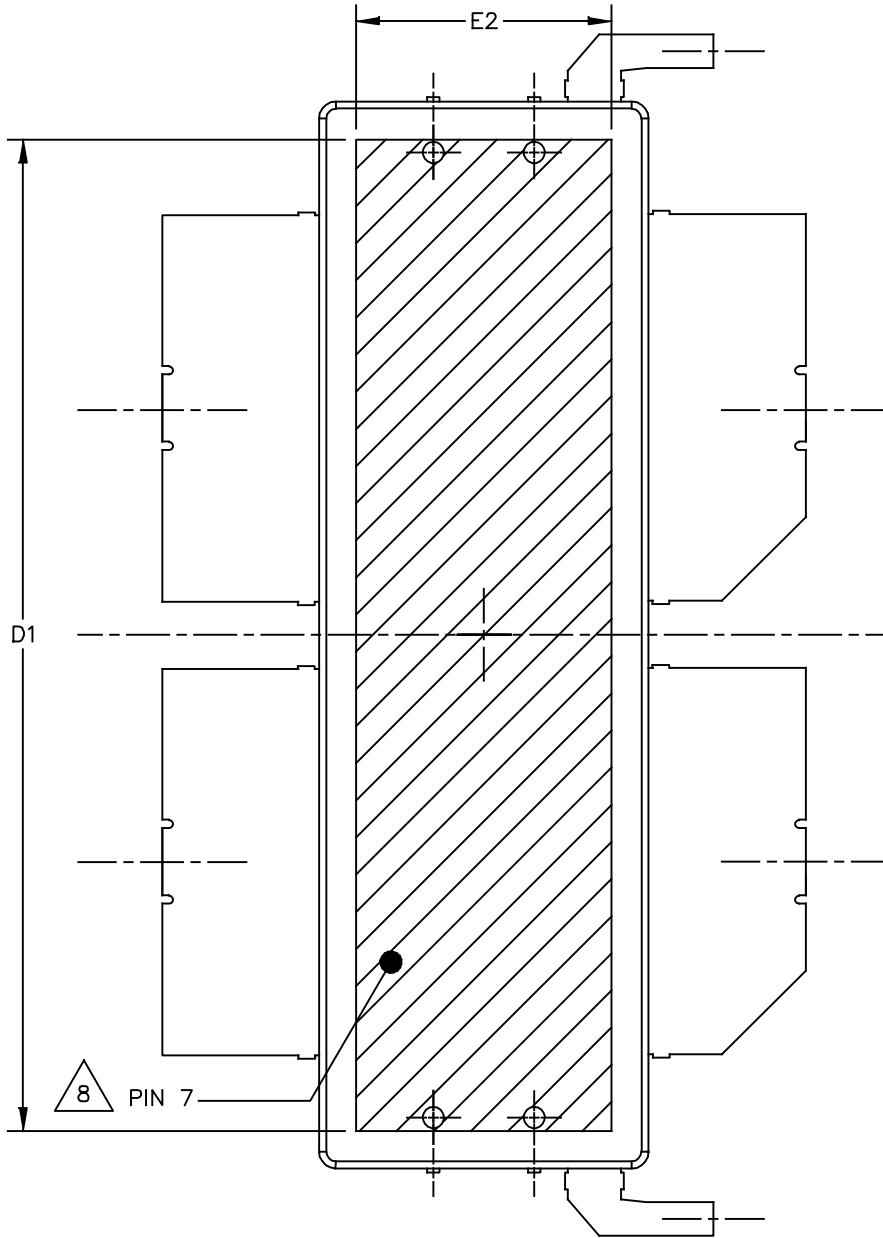
- Gain
- Drain Efficiency
- Linearity
- Output Power

PACKAGE DIMENSIONS



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BOTTOM VIEW
VIEW T-T

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		STANDARD: NON-JEDEC	
		SOT1819-2	18 FEB 2016

NOTES:

1. CONTROLLING DIMENSION: INCH
2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.
3. DATUM PLANE H IS LOCATED AT TOP OF LEAD AND IS COINCIDENT WITH THE LEAD WHERE THE LEAD EXITS THE PLASTIC BODY AT THE TOP OF THE PARTING LINE.
4. DIMENSIONS DD AND E1 DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE PROTRUSION IS .006 INCH (0.15 MM) PER SIDE. DIMENSIONS DD AND E1 DO INCLUDE MOLD MISMATCH AND ARE DETERMINED AT DATUM PLANE H.
5. DIMENSION bb DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE .005 INCH (0.13 MM) TOTAL IN EXCESS OF THE bb DIMENSION AT MAXIMUM MATERIAL CONDITION.
6. DATUMS A AND B TO BE DETERMINED AT DATUM PLANE H.
7. DIMENSIONS A1 AND A2 APPLY WITHIN ZONE J ONLY. A1 APPLIES TO PINS 1, 2, 4 AND 5. A2 APPLIES TO PINS 3 AND 6.
8. HATCHING REPRESENTS THE EXPOSED AND SOLDERABLE AREA OF THE HEAT SLUG. THE DIMENSIONS D1 AND E2 REPRESENT THE VALUES BETWEEN THE TWO OPPOSITE POINTS ALONG THE EDGES OF EXPOSED AREA OF HEAT SLUG.
9. DIMPLED HOLE REPRESENTS INPUT SIDE.
10. ZONE K REPRESENTS NON-SOLDERABLE REGION WHERE MOLD FLASH AND RESIN BLEED ARE PERMITTED ON BOTH SIDES OF THE LEADS.

DIM	INCH		MILLIMETER		DIM	INCH		MILLIMETER	
	MIN	MAX	MIN	MAX		MIN	MAX	MIN	MAX
AA	.148	.152	3.76	3.86	W2	.158	.168	4.01	4.27
A1	.059	.065	1.50	1.65	W3	.132	.142	3.35	3.61
A2	.056	.068	1.42	1.73	W4	.265	.281	6.73	7.14
DD	1.267	1.273	32.18	32.33	U	.037	.043	0.94	1.09
D1	1.180	----	29.97	----	Y	.695 BSC		17.65 BSC	
E	.762	.770	19.35	19.56	bb	.457	.463	11.61	11.76
E1	.390	.394	9.91	10.01	c1	.007	.011	0.18	0.28
E2	.306	----	7.77	----	e	.270 BSC		6.86 BSC	
E3	.383	.387	9.73	9.83	e1	.116	.124	2.95	3.15
F	.025 REF		0.64 REF		aaa	.004		0.10	
G	.030 REF		0.76 REF		bbb	.006		0.15	
W1	.095	.105	2.41	2.67	ccc	.010		0.25	

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		STANDARD: NON-JEDEC	
		SOT1819-2	18 FEB 2016

PRODUCT DOCUMENTATION, SOFTWARE AND TOOLS

Refer to the following resources to aid your design process.

Application Notes

- AN1907: Solder Reflow Attach Method for High Power RF Devices in Over-Molded Plastic Packages
- AN1955: Thermal Measurement Methodology of RF Power Amplifiers

Engineering Bulletins

- EB212: Using Data Sheet Impedances for RF LDMOS Devices

Software

- Electromigration MTTF Calculator
- .s2p File

Development Tools

- Printed Circuit Boards

To Download Resources Specific to a Given Part Number:

1. Go to <http://www.nxp.com/RF>
2. Search by part number
3. Click part number link
4. Choose the desired resource from the drop down menu

REVISION HISTORY

The following table summarizes revisions to this document.

Revision	Date	Description
0	May 2016	• Initial Release of Data Sheet

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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