



RF Power LDMOS Transistor

N-Channel Enhancement-Mode Lateral MOSFET

This 18 W asymmetrical Doherty RF power LDMOS transistor is designed for cellular base station applications covering the frequency range of 2110 to 2170 MHz.

2100 MHz

- Typical Doherty Single-Carrier W-CDMA Performance: $V_{DD} = 28\text{ Vdc}$, $I_{DQA} = 250\text{ mA}$, $V_{GSB} = 0.2\text{ Vdc}$, $P_{out} = 18\text{ W Avg.}$, Input Signal PAR = 9.9 dB @ 0.01% Probability on CCDF.

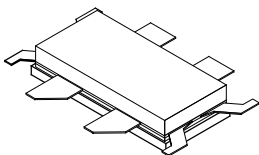
Frequency	G_{ps} (dB)	η_D (%)	Output PAR (dB)	ACPR (dBc)
2110 MHz	17.3	52.1	8.2	-32.4
2140 MHz	17.4	51.0	8.0	-33.1
2170 MHz	17.4	50.5	8.0	-35.0

Features

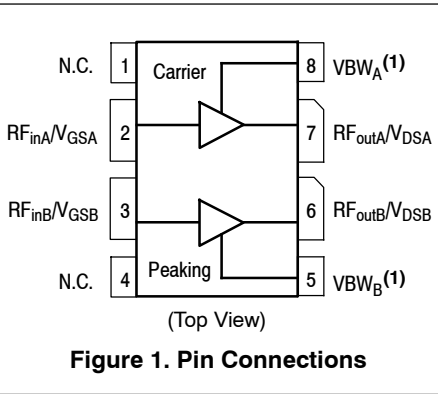
- Advanced High Performance In-Package Doherty
- Greater Negative Gate-Source Voltage Range for Improved Class C Operation
- Designed for Digital Predistortion Error Correction Systems

A2T21H100-25SR3

**2110-2170 MHz, 18 W AVG., 28 V
 AIRFAST RF POWER LDMOS
 TRANSISTOR**



NI-780S-4L4S



1. Device cannot operate with the V_{DD} current supplied through pin 5 and pin 8.

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 +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	193 2.9	W W/°C

Table 2. Thermal Characteristics

Characteristic	Symbol	Value (2,3)	Unit
Thermal Resistance, Junction to Case Case Temperature 72°C , 18 W Avg., W-CDMA, 28 Vdc, $I_{DQA} = 250\text{ mA}$, $V_{GSB} = 0.2\text{ Vdc}$, 2140 MHz	$R_{\theta JC}$	0.76	°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)	III

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 (4)

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

On Characteristics - Side A, Carrier

Gate Threshold Voltage ($V_{DS} = 10\text{ Vdc}$, $I_D = 40\text{ }\mu\text{Adc}$)	$V_{GS(th)}$	0.8	1.2	1.6	Vdc
Gate Quiescent Voltage ($V_{DD} = 28\text{ Vdc}$, $I_{DA} = 250\text{ mAdc}$, Measured in Functional Test)	$V_{GSA(Q)}$	1.5	1.8	2.3	Vdc
Drain-Source On-Voltage ($V_{GS} = 10\text{ Vdc}$, $I_D = 0.4\text{ Adc}$)	$V_{DS(on)}$	0.1	0.15	0.3	Vdc

On Characteristics - Side B, Peaking

Gate Threshold Voltage ($V_{DS} = 10\text{ Vdc}$, $I_D = 60\text{ }\mu\text{Adc}$)	$V_{GS(th)}$	0.8	1.2	1.6	Vdc
Drain-Source On-Voltage ($V_{GS} = 10\text{ Vdc}$, $I_D = 0.6\text{ Adc}$)	$V_{DS(on)}$	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/calculators>.
3. Refer to [AN1955](#), *Thermal Measurement Methodology of RF Power Amplifiers*. Go to <http://www.freescale.com/rf> and search for AN1955.
4. Each side of device measured 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) (In Freescale Doherty Test Fixture, 50 ohm system) $V_{DD} = 28\text{ Vdc}$, $I_{DQA} = 250\text{ mA}$, $V_{GSB} = 0.2\text{ Vdc}$, $P_{out} = 18\text{ W Avg.}$, $f = 2170\text{ MHz}$, 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}	16.5	17.4	19.5	dB
Drain Efficiency	η_D	47.3	50.5	—	%
Output Peak-to-Average Ratio @ 0.01% Probability on CCDF	PAR	7.3	8.0	—	dB
Adjacent Channel Power Ratio	ACPR	—	-35.0	-29.8	dBc

Load Mismatch ⁽²⁾ (In Freescale Doherty Test Fixture, 50 ohm system) $I_{DQA} = 250\text{ mA}$, $V_{GSB} = 0.2\text{ Vdc}$, $f = 2140\text{ MHz}$, 12 $\mu\text{sec(on)}$, 12% Duty Cycle

VSWR 10:1 at 32 Vdc, 126 W Pulsed CW Output Power (3 dB Input Overdrive from 78 W Pulsed CW Rated Power)	No Device Degradation
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Typical Performance ⁽²⁾ (In Freescale Doherty Test Fixture, 50 ohm system) $V_{DD} = 28\text{ Vdc}$, $I_{DQA} = 250\text{ mA}$, $V_{GSB} = 0.2\text{ Vdc}$, 2110–2170 MHz Bandwidth

P_{out} @ 1 dB Compression Point, CW	P1dB	—	75	—	W
P_{out} @ 3 dB Compression Point ⁽³⁾	P3dB	—	112	—	W
AM/PM (Maximum value measured at the P3dB compression point across the 2110–2170 MHz frequency range)	Φ	—	-21.9	—	°
VBW Resonance Point (IMD Third Order Intermodulation Inflection Point)	VBW_{res}	—	120	—	MHz
Gain Flatness in 60 MHz Bandwidth @ $P_{out} = 18\text{ W Avg.}$	G_F	—	0.17	—	dB
Gain Variation over Temperature (-30°C to +85°C)	ΔG	—	0.01	—	dB/°C
Output Power Variation over Temperature (-30°C to +85°C) ⁽⁴⁾	$\Delta P1dB$	—	0.006	—	dB/°C

Table 5. Ordering Information

Device	Tape and Reel Information	Package
A2T21H100-25SR3	R3 Suffix = 250 Units, 44 mm Tape Width, 13-inch Reel	NI-780S-4L4S

- 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.
- Exceeds recommended operating conditions. See CW operation data in Maximum Ratings table.

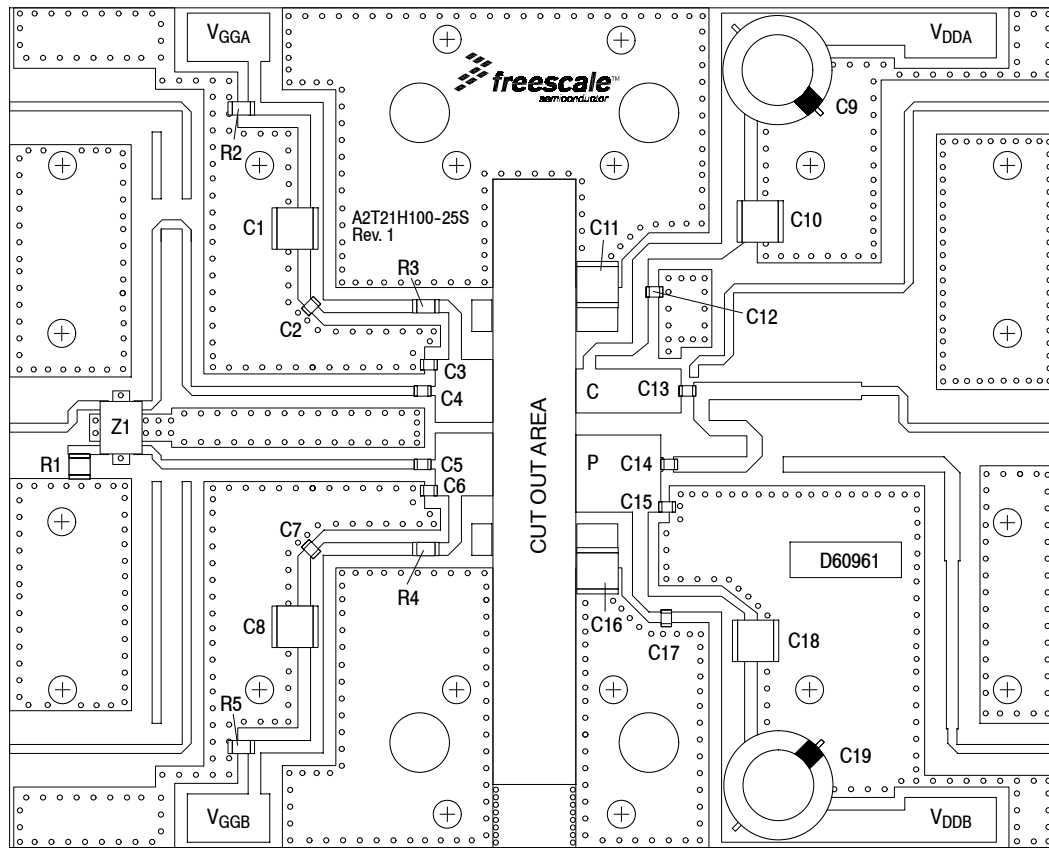


Figure 2. A2T21H100-25SR3 Test Circuit Component Layout

Table 6. A2T21H100-25SR3 Test Circuit Component Designations and Values

Part	Description	Part Number	Manufacturer
C1, C8, C10, C11, C16, C18	10 μ F Chip Capacitors	C5750X7S2A106M230KB	TDK
C2, C4, C5, C7, C12, C13, C14, C17	10 pF Chip Capacitors	ATC600F100JT250XT	ATC
C3, C6, C15	0.5 pF Chip Capacitors	ATC600F0R5BT250XT	ATC
C9, C19	220 μ F, 50 V Electrolytic Capacitors	227CKS050M	Illinois Capacitor
R1	50 Ω , 10 W Chip Resistor	C10A50Z4	Anaren
R2, R5	10 K Ω , 1/4 W Chip Resistors	CRCW120610K0JNEA	Vishay
R3, R4	5.6 Ω , 1/4 W Chip Resistors	CRCW12065R60FKEA	Vishay
Z1	2000–2300 MHz Band, 90°, 5 dB Directional Coupler	X3C21P1-05S	Anaren
PCB	Rogers RO4350B, 0.020", $\epsilon_r = 3.66$	D60961	MTL

TYPICAL CHARACTERISTICS — 2110–2170 MHz

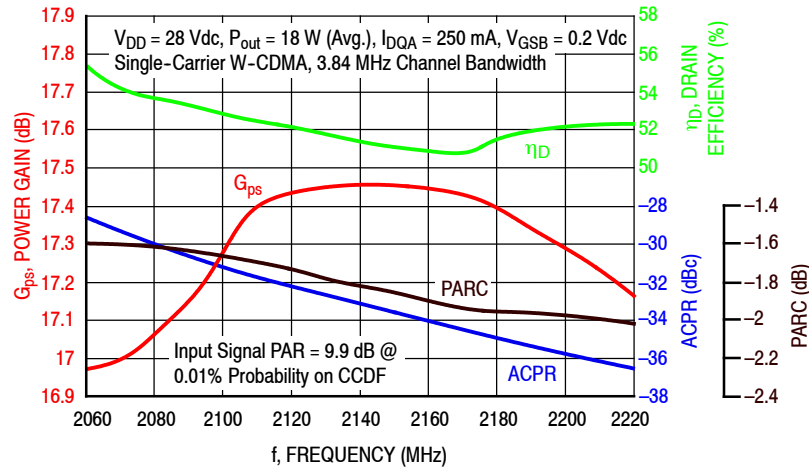


Figure 3. Single-Carrier Output Peak-to-Average Ratio Compression (PARC) Broadband Performance @ $P_{out} = 18$ Watts Avg.

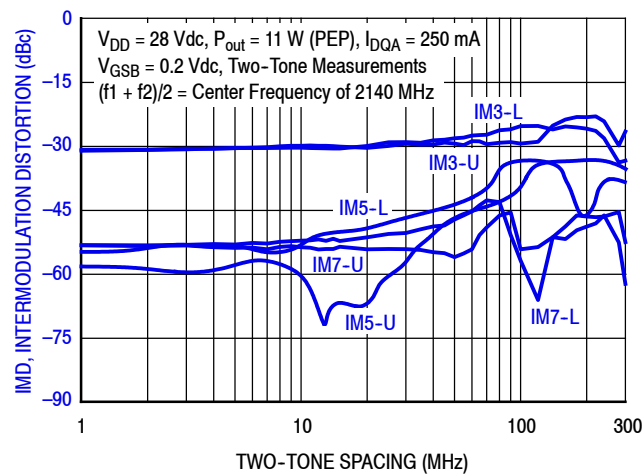


Figure 4. Intermodulation Distortion Products versus Two-Tone Spacing

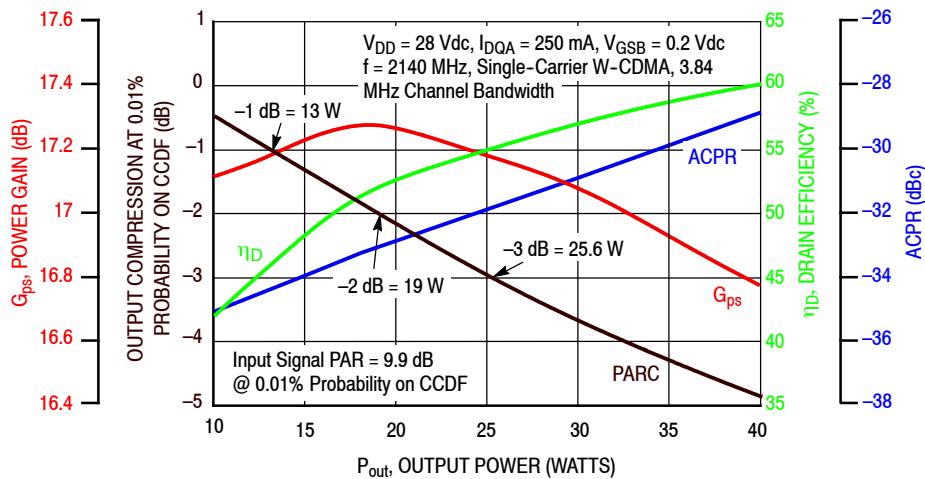


Figure 5. Output Peak-to-Average Ratio Compression (PARC) versus Output Power

TYPICAL CHARACTERISTICS — 2110–2170 MHz

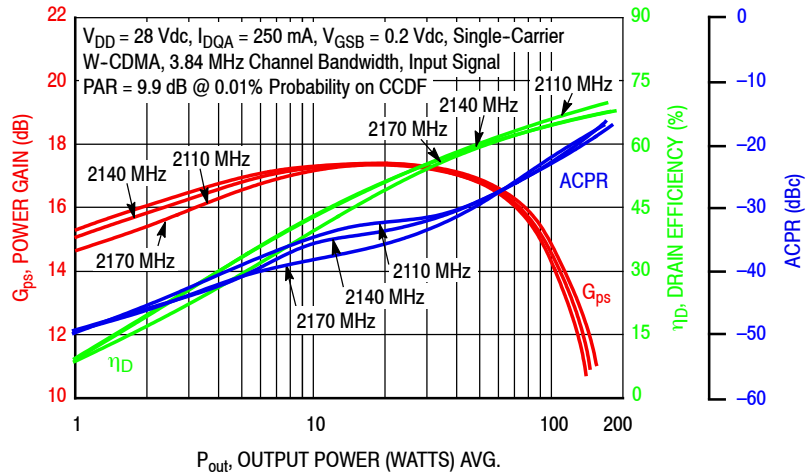


Figure 6. Single-Carrier W-CDMA Power Gain, Drain Efficiency and ACPR versus Output Power

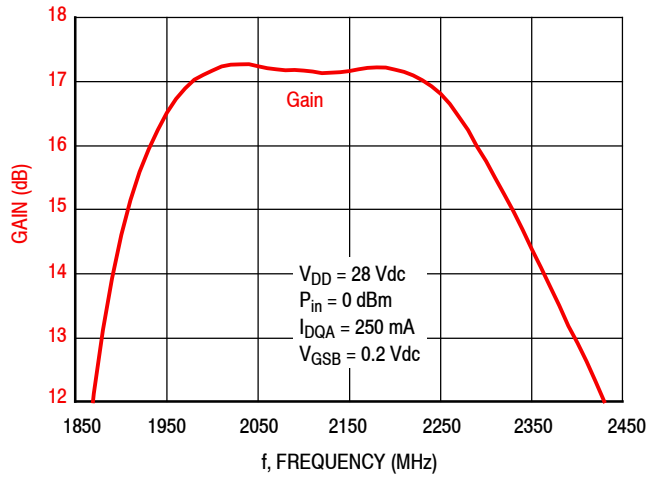


Figure 7. Broadband Frequency Response

Table 7. Carrier Side Load Pull Performance — Maximum Power Tuning
 $V_{DD} = 28 \text{ Vdc}$, $I_{DQA} = 237 \text{ mA}$, 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 (°)
2110	16.2 – j20.6	14.5 + j19.4	13.0 – j11.6	19.9	46.6	45	57.2	–15
2140	22.6 – j22.0	18.4 + j19.4	11.3 – j8.94	19.7	46.6	46	57.7	–16
2170	30.0 – j15.0	25.1 + j17.0	12.1 – j10.2	19.6	46.7	47	58.1	–15

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 (°)
2110	16.2 – j20.6	16.6 + j21.3	12.8 – j12.8	17.7	47.4	55	58.3	–21
2140	22.6 – j22.0	22.3 + j20.9	12.2 – j11.4	17.5	47.4	55	58.5	–22
2170	30.0 – j15.0	30.4 + j16.9	12.7 – j12.3	17.4	47.5	56	58.8	–20

(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 8. Carrier Side Load Pull Performance — Maximum Drain Efficiency Tuning
 $V_{DD} = 28 \text{ Vdc}$, $I_{DQA} = 237 \text{ mA}$, 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 (°)
2110	16.2 – j20.6	11.6 + j22.0	15.5 + j2.97	22.7	44.8	30	68.7	–28
2140	22.6 – j22.0	16.6 + j23.8	13.6 + j2.89	22.4	44.8	30	68.6	–30
2170	30.0 – j15.0	24.7 + j23.1	13.3 + j1.92	22.2	45.0	31	68.8	–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 (°)
2110	16.2 – j20.6	13.0 + j23.6	14.4 + j1.73	20.3	45.6	36	69.0	–37
2140	22.6 – j22.0	18.9 + j25.5	12.6 + j1.63	20.1	45.5	36	68.7	–39
2170	30.0 – j15.0	29.3 + j24.0	13.3 + j0.91	20.0	45.7	37	69.0	–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.

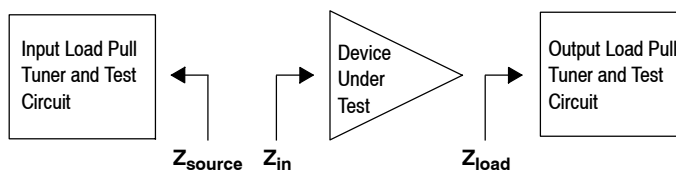
 Z_{load} = Measured impedance presented to the output of the device at the package reference plane.


Table 9. Peaking Side Load Pull Performance — Maximum Power Tuning
 $V_{DD} = 28 \text{ Vdc}$, $V_{GSB} = 0.2 \text{ Vdc}$, 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 (°)
2110	9.12 – j16.9	10.8 + j19.0	6.94 – j11.9	14.2	48.6	72	61.8	–31
2140	12.3 – j17.6	15.2 + j19.5	7.25 – j12.4	14.1	48.5	70	60.8	–32
2170	17.3 – j16.3	21.2 + j18.5	7.13 – j12.8	14.0	48.4	70	60.3	–31

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 (°)
2110	9.12 – j16.9	12.8 + j20.5	7.33 – j13.3	12.2	49.2	83	62.3	–38
2140	12.3 – j17.6	18.7 + j20.4	7.57 – j13.9	12.0	49.1	82	61.1	–39
2170	17.3 – j16.3	26.4 + j17.2	7.78 – j15.1	11.9	49.1	81	60.0	–38

(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 10. Peaking Side Load Pull Performance — Maximum Drain Efficiency Tuning
 $V_{DD} = 28 \text{ Vdc}$, $V_{GSB} = 0.2 \text{ Vdc}$, 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 (°)
2110	9.12 – j16.9	7.84 + j19.6	13.9 – j3.44	15.6	46.2	42	73.9	–40
2140	12.3 – j17.6	11.4 + j21.4	13.0 – j3.73	15.5	46.3	42	73.1	–40
2170	17.3 – j16.3	16.4 + j23.3	12.0 – j1.88	15.2	45.7	37	72.8	–43

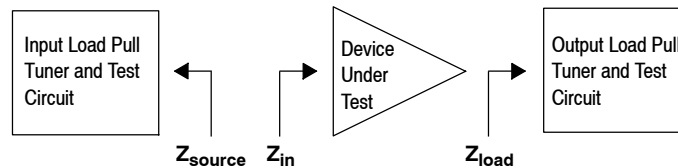
f (MHz)	Z_{source} (Ω)	Z_{in} (Ω)	Max Drain Efficiency					
			P3dB					
			$Z_{\text{load}}^{(2)}$ (Ω)	Gain (dB)	(dBm)	(W)	η_D (%)	AM/PM (°)
2110	9.12 – j16.9	9.75 + j21.2	12.6 – j3.97	13.6	46.9	49	74.0	–54
2140	12.3 – j17.6	15.7 + j22.5	12.1 – j6.94	13.4	47.6	57	72.9	–49
2170	17.3 – j16.3	23.6 + j22.1	11.2 – j6.81	13.2	47.5	57	72.7	–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 — 2140 MHz

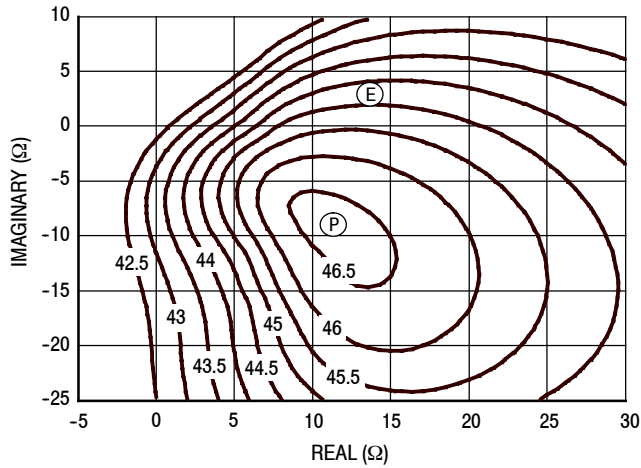


Figure 8. P1dB Load Pull Output Power Contours (dBm)

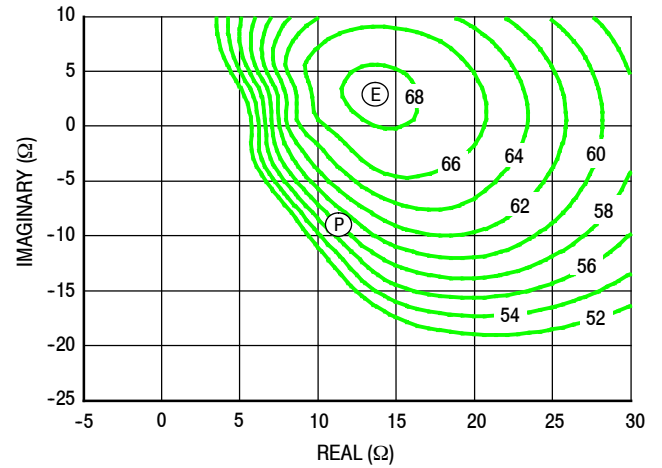


Figure 9. P1dB Load Pull Efficiency Contours (%)

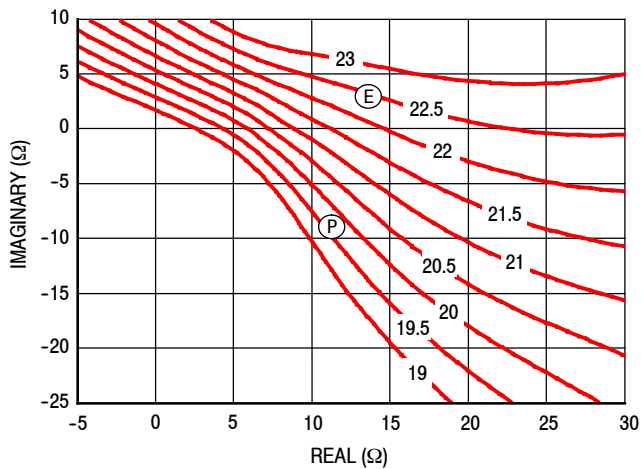


Figure 10. P1dB Load Pull Gain Contours (dB)

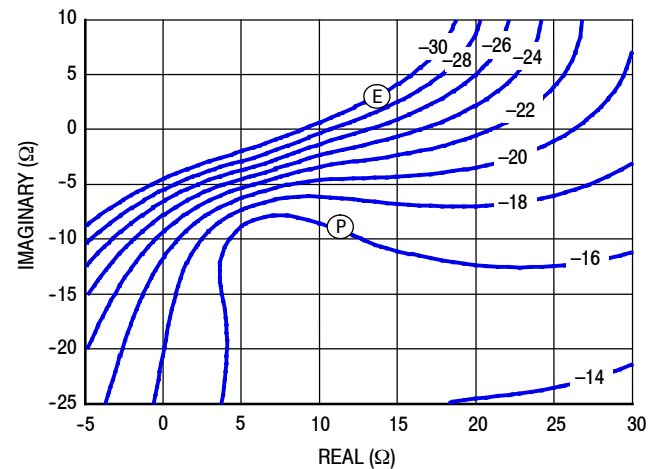


Figure 11. P1dB Load Pull AM/PM Contours (°)

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

- Gain
- Drain Efficiency
- Linearity
- Output Power

P3dB - TYPICAL CARRIER SIDE LOAD PULL CONTOURS — 2140 MHz

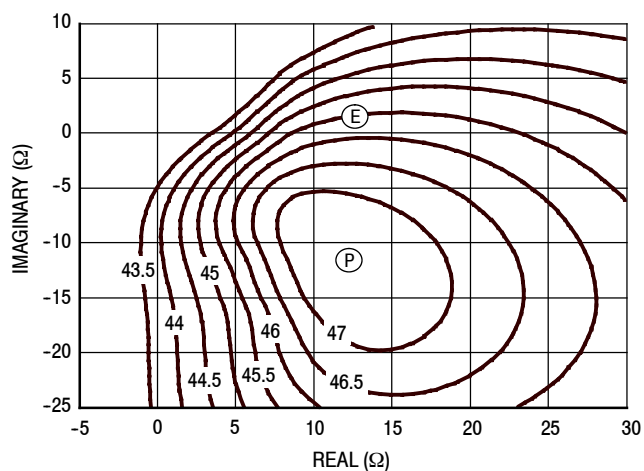


Figure 12. P3dB Load Pull Output Power Contours (dBm)

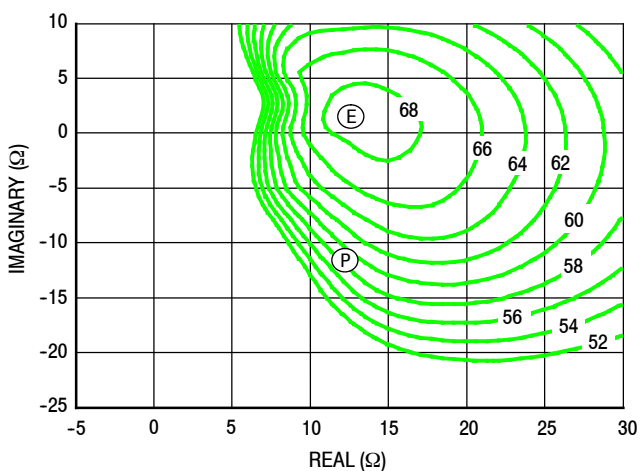


Figure 13. P3dB Load Pull Efficiency Contours (%)

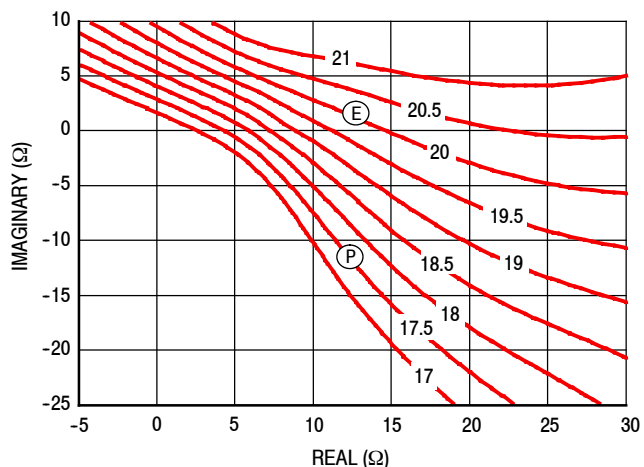


Figure 14. P3dB Load Pull Gain Contours (dB)

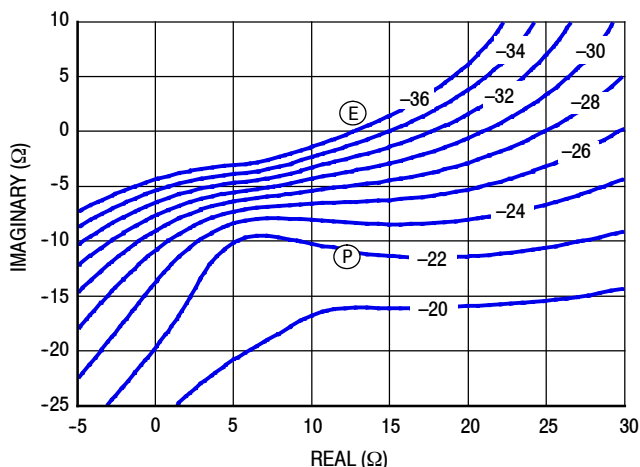


Figure 15. P3dB Load Pull AM/PM Contours (°)

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

- Gain
- Drain Efficiency
- Linearity
- Output Power

P1dB - TYPICAL PEAKING SIDE LOAD PULL CONTOURS — 2140 MHz

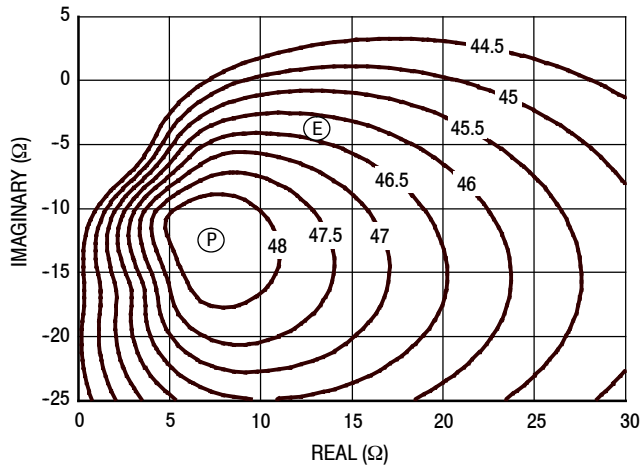


Figure 16. P1dB Load Pull Output Power Contours (dBm)

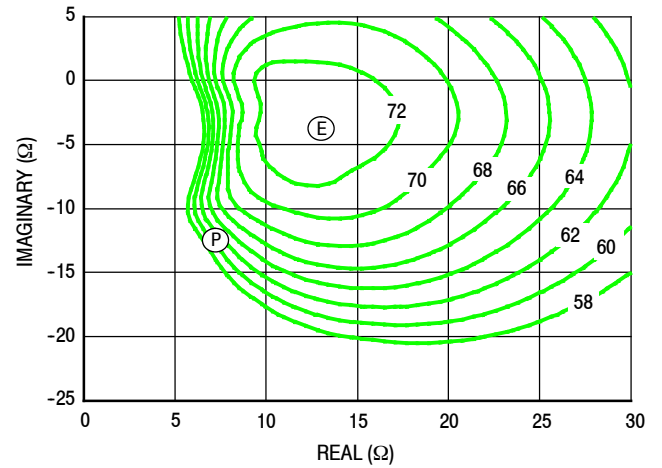


Figure 17. P1dB Load Pull Efficiency Contours (%)

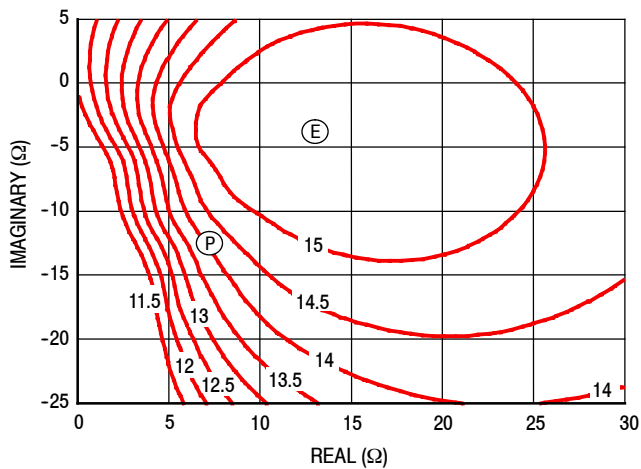


Figure 18. P1dB Load Pull Gain Contours (dB)

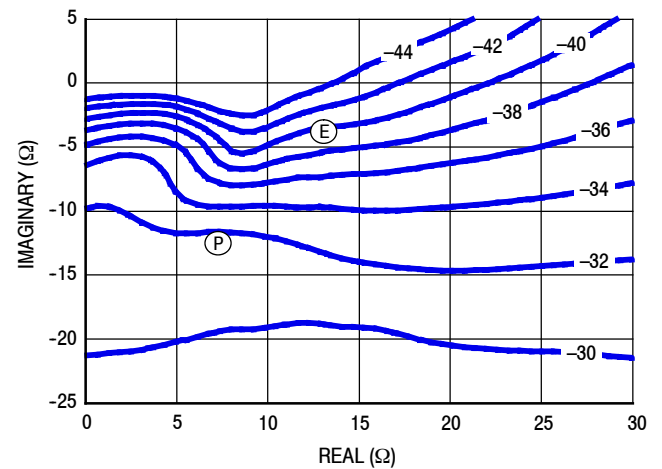


Figure 19. P1dB Load Pull AM/PM Contours (°)

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

- Gain
- Drain Efficiency
- Linearity
- Output Power

P3dB - TYPICAL PEAKING SIDE LOAD PULL CONTOURS — 2140 MHz

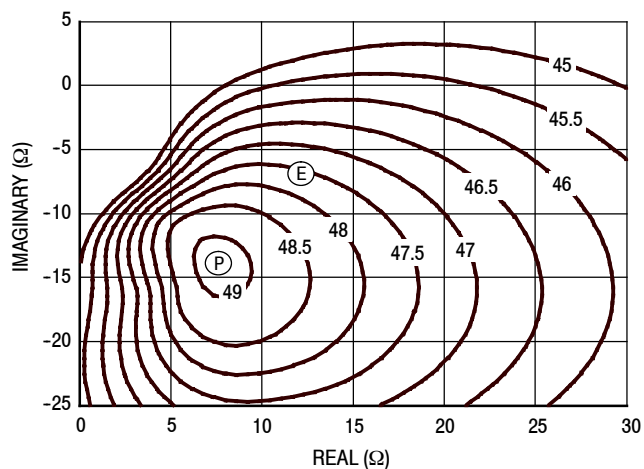


Figure 20. P3dB Load Pull Output Power Contours (dBm)

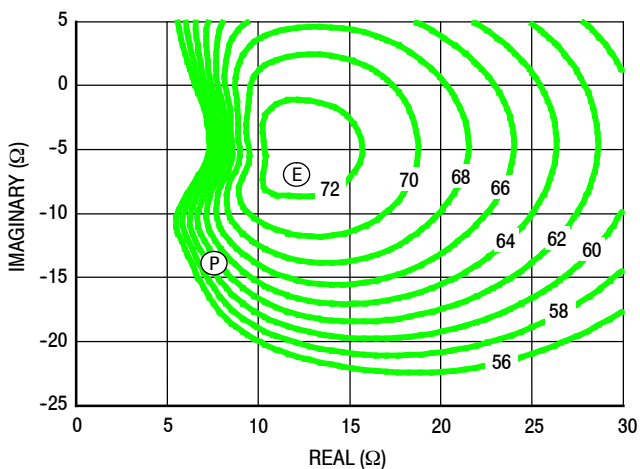


Figure 21. P3dB Load Pull Efficiency Contours (%)

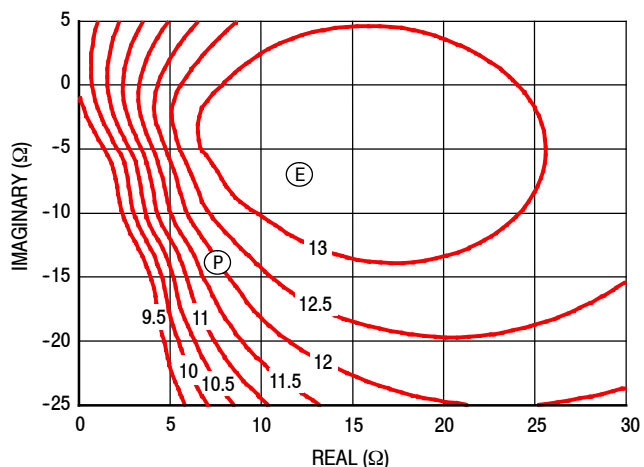


Figure 22. P3dB Load Pull Gain Contours (dB)

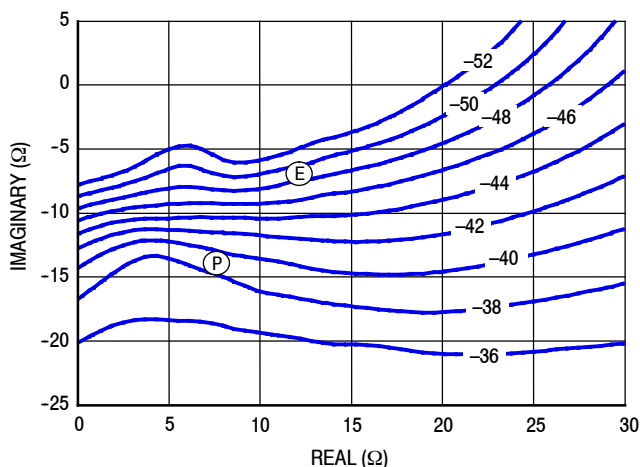
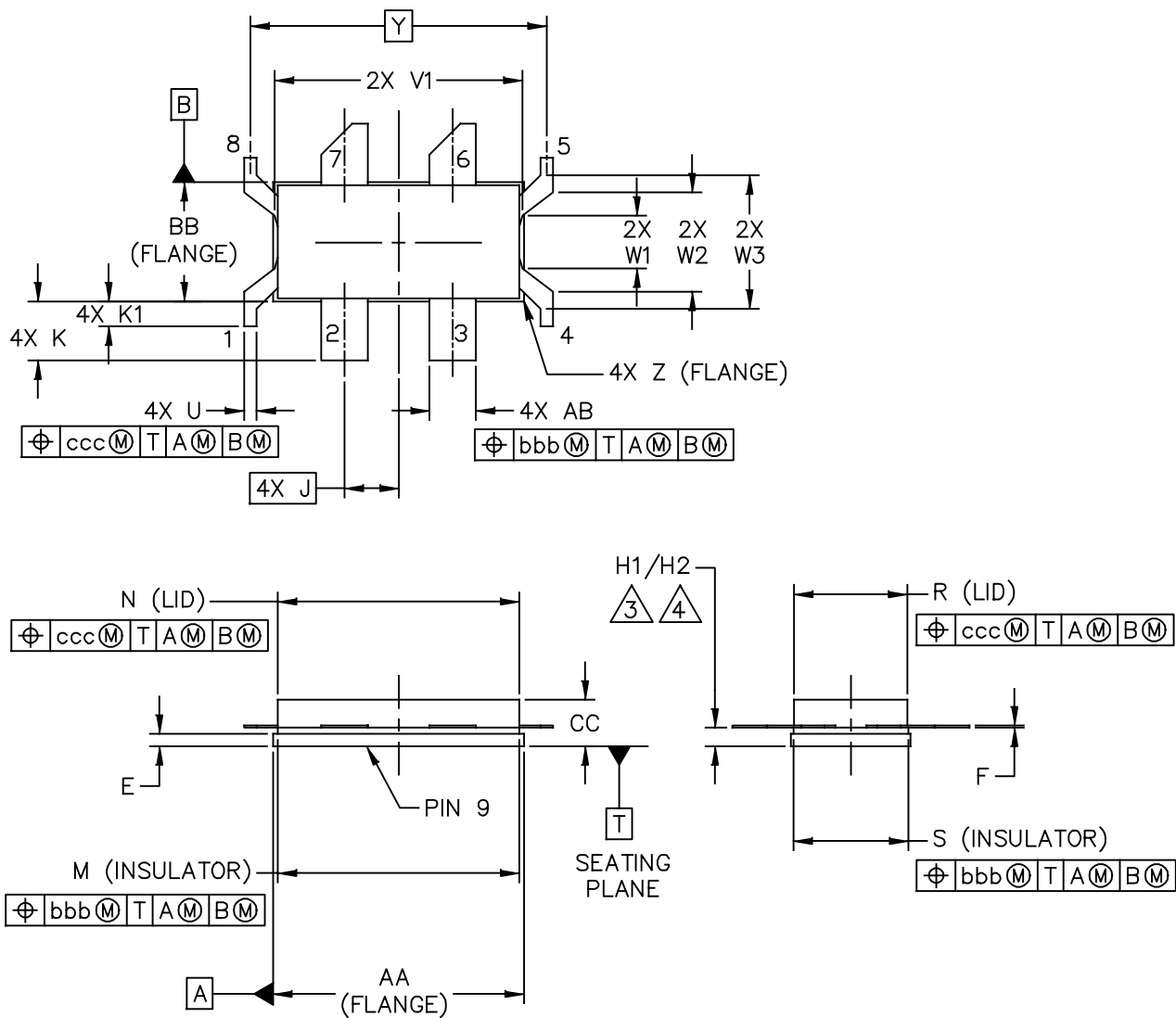


Figure 23. P3dB Load Pull AM/PM Contours (°)

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

- Gain
- Drain Efficiency
- Linearity
- Output Power

PACKAGE DIMENSIONS



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	STANDARD: NON-JEDEC	
	08 MAR 2013	

NOTES:

1. CONTROLLING DIMENSION: INCH.

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

3. DIMENSIONS H1 AND H2 ARE MEASURED .030 INCH (0.762 MM) AWAY FROM FLANGE PARALLEL TO DATUM B. H1 APPLIES TO PINS 2, 3, 6 & 7. H2 APPLIES TO PINS 1, 4, 5 & 8.

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

	INCH		MILLIMETER			INCH		MILLIMETER	
DIM	MIN	MAX	MIN	MAX	DIM	MIN	MAX	MIN	MAX
AA	.805	— .815	20.45	— 20.70	R	.365	— .375	9.27	— 9.53
BB	.380	— .390	9.65	— 9.91	S	.365	— .375	9.27	— 9.53
CC	.125	— .170	3.18	— 4.32	U	.035	— .045	0.89	— 1.14
E	.035	— .045	0.89	— 1.14	V1	.795	— .805	20.19	— 20.45
F	.004	— .007	0.10	— 0.18	W1	.165	— .175	4.19	— 4.45
H1	.057	— .067	1.45	— 1.70	W2	.315	— .325	8.00	— 8.26
H2	.054	— .070	1.37	— 1.78	W3	.425	— .435	10.80	— 11.05
J	.175 BSC		4.45 BSC		Y	.956 BSC		24.28 BSC	
K	.170	— .210	4.32	— 5.33	Z	R.000	— R.040	R0.00	— R1.02
K1	.070	— .090	1.78	— 2.29	AB	.145	— .155	3.68	— 3.94
M	.774	— .786	19.66	— 19.96	aaa	— .005	—	— 0.13	—
N	.772	— .788	19.61	— 20.02	bbb	— .010	—	— 0.25	—
					ccc	— .015	—	— 0.38	—
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PRODUCT DOCUMENTATION, SOFTWARE AND TOOLS

Refer to the following resources 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

To Download Resources Specific to a Given Part Number:

1. Go to <http://www.freescale.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	June 2015	• Initial Pre-release of Data Sheet

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