Table 2. Thermal Characteristics

Characteristic	Symbol	Value (1,2)	Unit
Thermal Resistance, Junction to Case Case Temperature 80°C, 125 W CW Case Temperature 76°C, 27 W CW	$R_{\theta JC}$	 0.44 0.45	°C/W

Table 3. ESD Protection Characteristics

Test Methodology	Class
Human Body Model (per JESD22-A114)	1B (Minimum)
Machine Model (per EIA/JESD22-A115)	C (Minimum)
Charge Device Model (per JESD22-C101)	IV (Minimum)

Table 4. Moisture Sensitivity Level

Test Methodology	Rating	Package Peak Temperature	Unit
Per JESD 22-A113, IPC/JEDEC J-STD-020	3	260	°C

Table 5. Electrical Characteristics (T_C = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Off Characteristics					
Zero Gate Voltage Drain Leakage Current (V_{DS} = 68 Vdc, V_{GS} = 0 Vdc)	I_{DSS}	—	—	10	μAdc
Zero Gate Voltage Drain Leakage Current (V_{DS} = 28 Vdc, V_{GS} = 0 Vdc)	I_{DSS}	—	—	1	μAdc
Gate-Source Leakage Current (V_{GS} = 5 Vdc, V_{DS} = 0 Vdc)	I_{GSS}	—	—	1	μAdc
On Characteristics					
Gate Threshold Voltage (V_{DS} = 10 Vdc, I_D = 400 μAdc)	$V_{GS(th)}$	1	2.1	3	Vdc
Gate Quiescent Voltage (V_{DD} = 28 Vdc, I_D = 950 mAdc, Measured in Functional Test)	$V_{GS(Q)}$	2	2.89	4	Vdc
Drain-Source On-Voltage (V_{GS} = 10 Vdc, I_D = 2.74 Adc)	$V_{DS(on)}$	0.05	0.23	0.3	Vdc
Dynamic Characteristics (3)					
Reverse Transfer Capacitance (V_{DS} = 28 Vdc ± 30 mV(rms)ac @ 1 MHz, V_{GS} = 0 Vdc)	C_{rss}	—	2	—	pF
Output Capacitance (V_{DS} = 28 Vdc ± 30 mV(rms)ac @ 1 MHz, V_{GS} = 0 Vdc)	C_{oss}	—	60	—	pF

Functional Tests (In Freescale Test Fixture, 50 ohm system) V_{DD} = 28 Vdc, I_{DQ} = 950 mA, P_{out} = 27 W Avg. N-CDMA, f = 880 MHz, Single-Carrier N-CDMA, 1.2288 MHz Channel Bandwidth Carrier. ACPR measured in 30 kHz Channel Bandwidth @ ±750 kHz Offset. PAR = 9.8 dB @ 0.01% Probability on CCDF.

Power Gain	G_{ps}	19	20.2	24	dB
Drain Efficiency	η_D	29	31	—	%
Adjacent Channel Power Ratio	ACPR	—	-47.1	-45	dBc
Input Return Loss	IRL	—	-16	-9	dB

1. MTTF calculator available at http://www.freescale.com/rf. Select Software & Tools/Development Tools/Calculators to access MTTF calculators by product.
2. Refer to AN1955, *Thermal Measurement Methodology of RF Power Amplifiers.* Go to http://www.freescale.com/rf. Select Documentation/Application Notes - AN1955.
3. Part is internally input matched.

(continued)

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Table 5. Electrical Characteristics (T_C = 25°C unless otherwise noted) **(continued)**

Characteristic	Symbol	Min	Typ	Max	Unit
Typical GSM EDGE Performances (In Freescale GSM EDGE Test Fixture, 50 ohm system) V_{DD} = 28 Vdc, I_{DQ} = 700 mA, P_{out} = 60 W Avg., 921 - 960 MHz, EDGE Modulation					
Power Gain	G_{ps}	—	20	—	dB
Drain Efficiency	η_D	—	40	—	%
Error Vector Magnitude	EVM	—	1.8	—	% rms
Spectral Regrowth at 400 kHz Offset	SR1	—	-63	—	dBc
Spectral Regrowth at 600 kHz Offset	SR2	—	-78	—	dBc
Typical CW Performances (In Freescale GSM Test Fixture, 50 ohm system) V_{DD} = 28 Vdc, I_{DQ} = 700 mA, P_{out} = 125 W, 921 - 960 MHz					
Power Gain	G_{ps}	—	19	—	dB
Drain Efficiency	η_D	—	62	—	%
Input Return Loss	IRL	—	-12	—	dB
P_{out} @ 1 dB Compression Point, CW (f = 880 MHz)	P1dB	—	125	—	W

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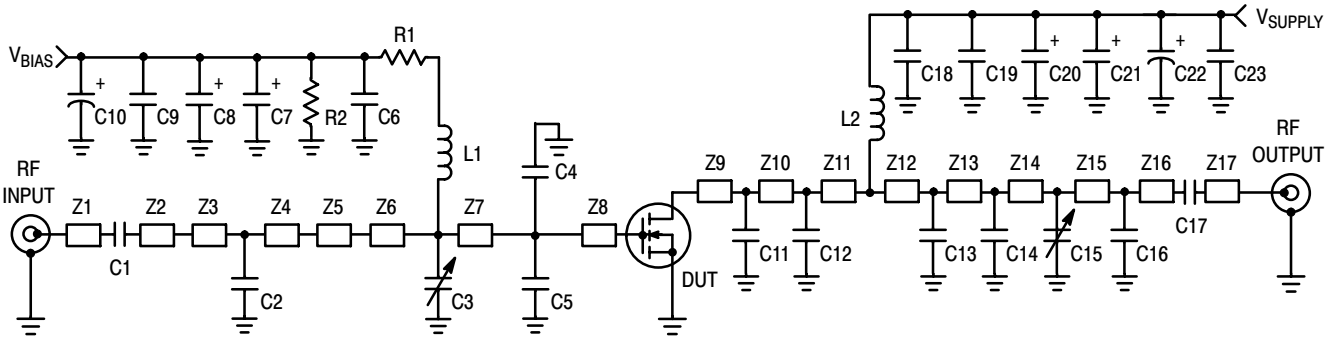

Z1, Z17	0.200″ x 0.080″ Microstrip	Z10	0.057″ x 0.620″ Microstrip
Z2	1.060″ x 0.080″ Microstrip	Z11	0.119″ x 0.620″ Microstrip
Z3	0.382″ x 0.220″ Microstrip	Z12	0.450″ x 0.220″ Microstrip
Z4	0.108″ x 0.220″ Microstrip	Z13	0.061″ x 0.220″ Microstrip
Z5	0.200″ x 0.420″ x 0.620″ Taper	Z14	0.078″ x 0.220″ Microstrip
Z6	0.028″ x 0.620″ Microstrip	Z15	0.692″ x 0.080″ Microstrip
Z7	0.236″ x 0.620″ Microstrip	Z16	0.368″ x 0.080″ Microstrip
Z8	0.050″ x 0.620″ Microstrip	PCB	Arlon CuClad 250GX-0300-55-22, 0.030″, ε_r = 2.55
Z9	0.238″ x 0.620″ Microstrip		

Figure 1. MRF6S9125NR1(NBR1) Test Circuit Schematic

Table 6. MRF6S9125NR1(NBR1) Test Circuit Component Designations and Values

Part	Description	Part Number	Manufacturer
C1	20 pF Chip Capacitor	ATC100B200FT500XT	ATC
C2	6.2 pF Chip Capacitor	ATC100B6R2BT500XT	ATC
C3, C15	0.8-8.0 pF Variable Capacitors, Gigatrim	27291SL	Johanson
C4, C5	11 pF Chip Capacitors	ATC100B110FT500XT	ATC
C6, C18, C19	0.56 μF, 50 V Chip Capacitors	C1825C564J5RAC	Kemet
C7, C8	47 μF, 16 V Tantalum Capacitors	T491D476K016AT	Kemet
C9, C23	47 pF Chip Capacitors	ATC700B470FT500XT	ATC
C10	100 μF, 50 V Electrolytic Capacitor	MCHT101M1HB-1017-RF	Multicomp
C11, C12	12 pF Chip Capacitors	ATC100B120FT500XT	ATC
C13, C14	5.1 pF Chip Capacitors	ATC100B5R1BT500XT	ATC
C16	0.3 pF Chip Capacitor	ATC700B0R3BT500XT	ATC
C17	39 pF Chip Capacitor	ATC700B390FT500XT	ATC
C20, C21	22 μF, 35 V Tantalum Capacitors	T491X226K035AT	Kemet
C22	470 μF, 63 V Electrolytic Capacitor	ESME630ELL471MK25S	United Chemi-Con
L1	7.15 nH Inductor	1606-7J	CoilCraft
L2	8.0 nH Inductor	A03T	CoilCraft
R1	15 Ω, 1/3 W Chip Resistor	CRCW121015R0FKEA	Vishay
R2	560 kΩ, 1/4 W Chip Resistor	CRCW12065603FKEA	Vishay

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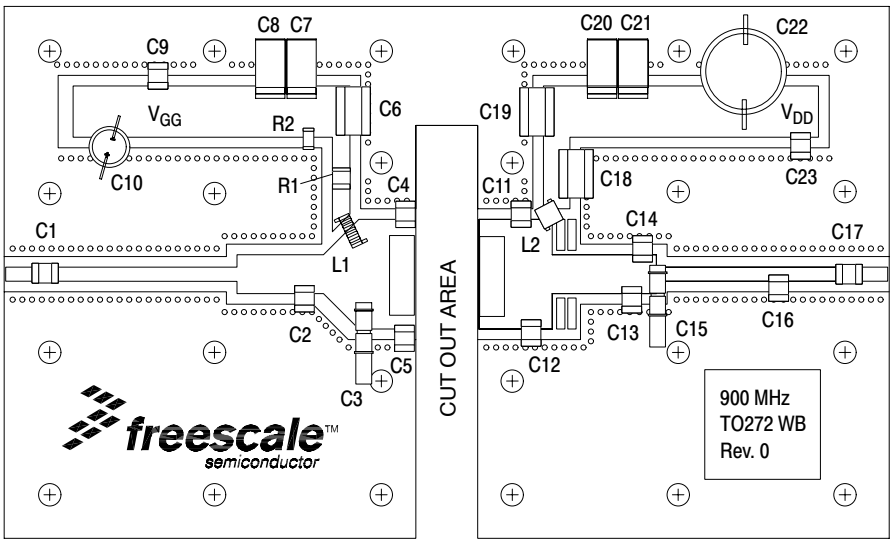

Figure 2. MRF6S9125NR1(NBR1) Test Circuit Component Layout

TYPICAL CHARACTERISTICS

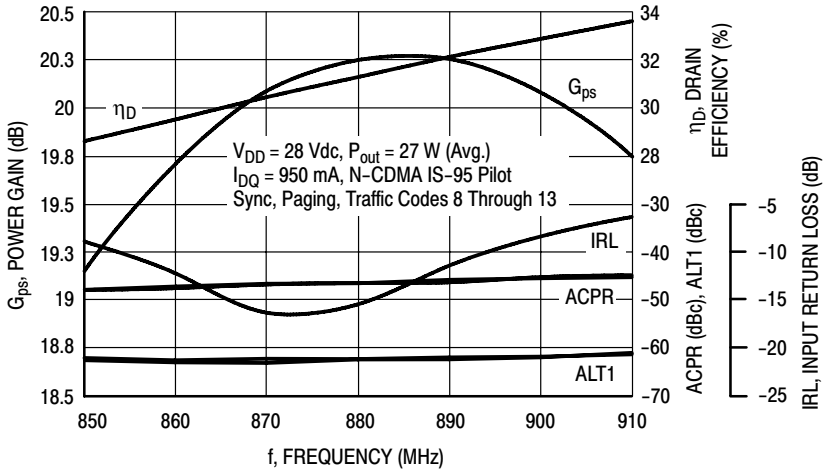

Figure 3. Single-Carrier N-CDMA Broadband Performance @ P_{out} = 27 Watts Avg.

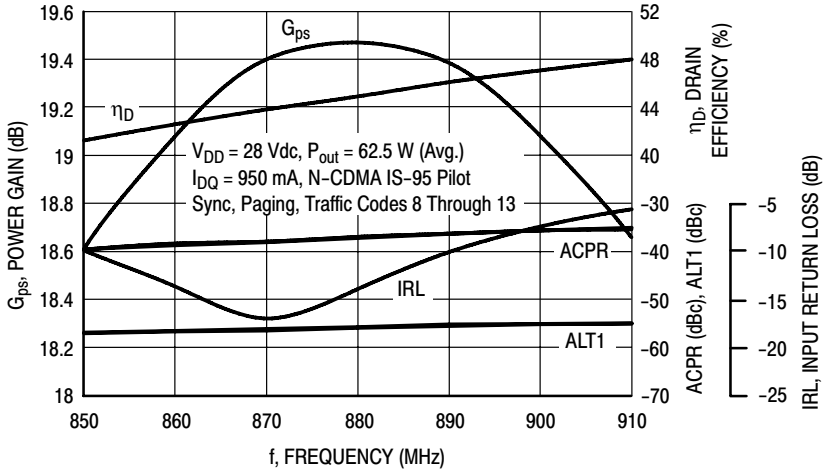

Figure 4. Single-Carrier N-CDMA Broadband Performance @ P_{out} = 62.5 Watts Avg.

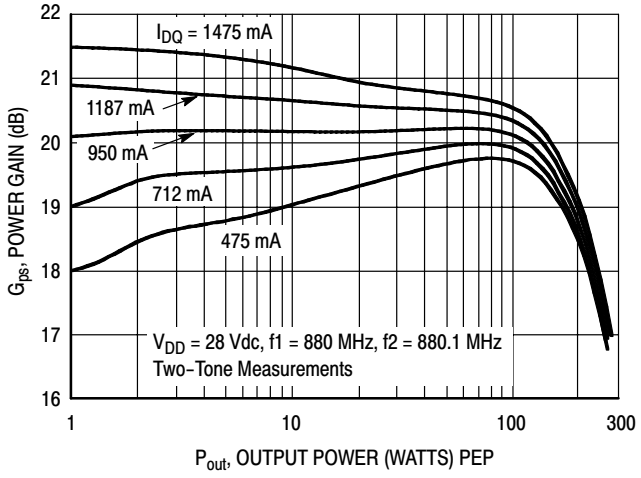

Figure 5. Two-Tone Power Gain versus Output Power

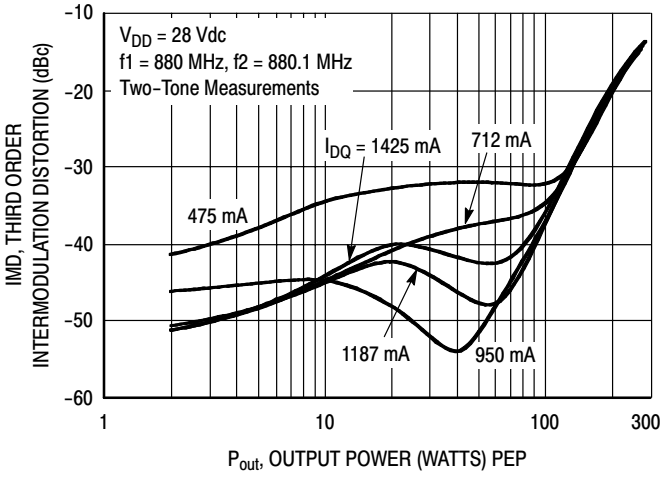

Figure 6. Third Order Intermodulation Distortion versus Output Power

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TYPICAL CHARACTERISTICS

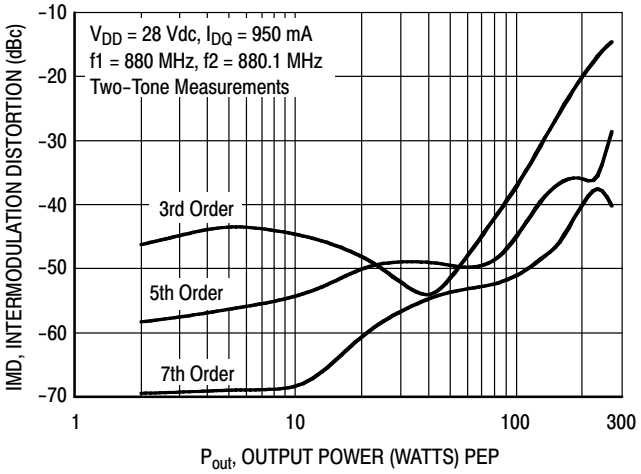


Figure 7. Intermodulation Distortion Products versus Output Power

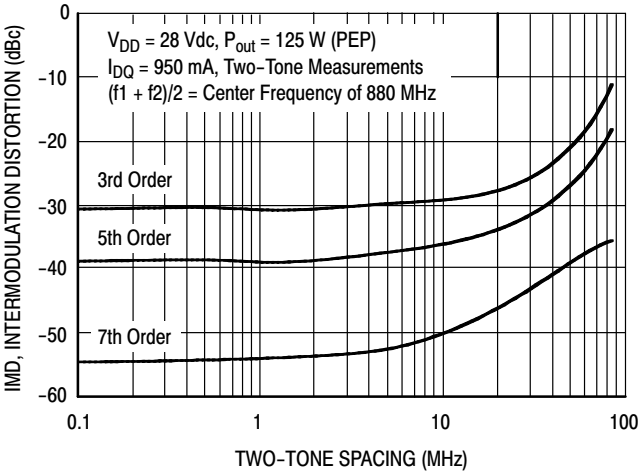


Figure 8. Intermodulation Distortion Products versus Tone Spacing

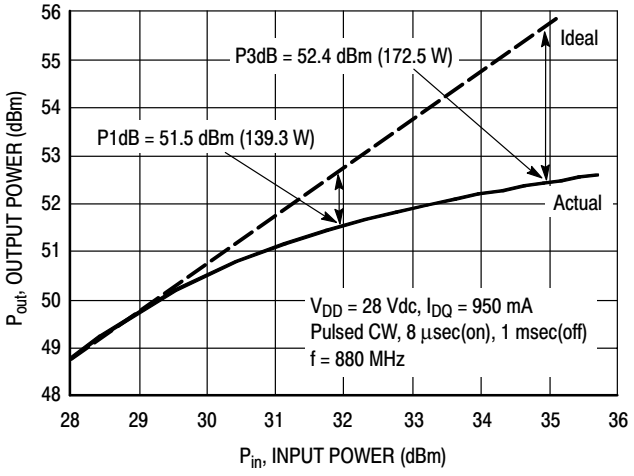


Figure 9. Pulsed CW Output Power versus Input Power

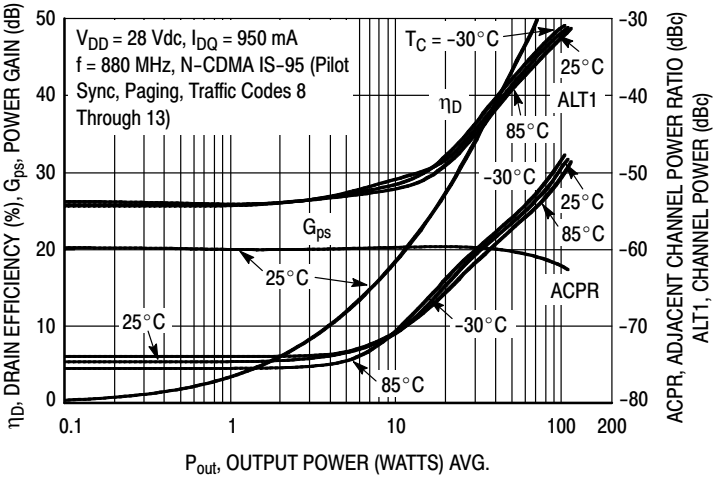


Figure 10. Single-Carrier N-CDMA ACPR, ALT1, Power Gain and Drain Efficiency versus Output Power

TYPICAL CHARACTERISTICS

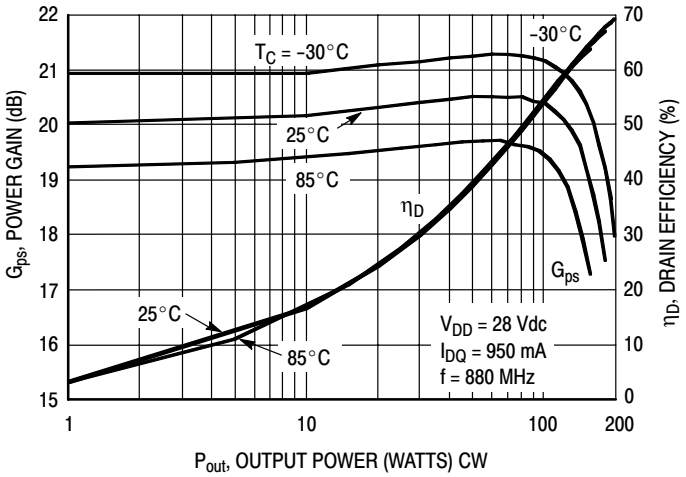


Figure 11. Power Gain and Drain Efficiency versus CW Output Power

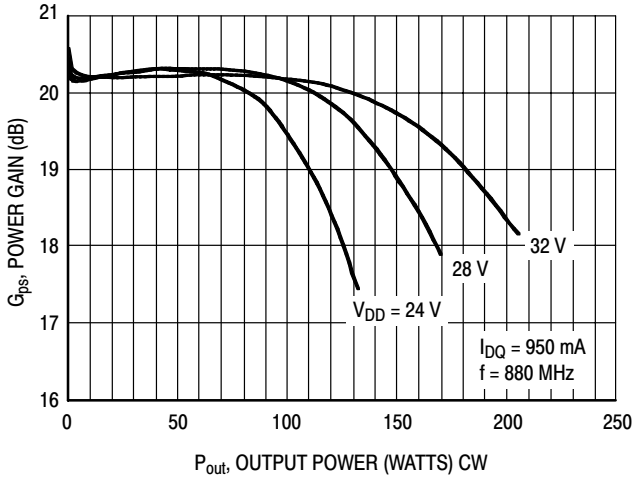
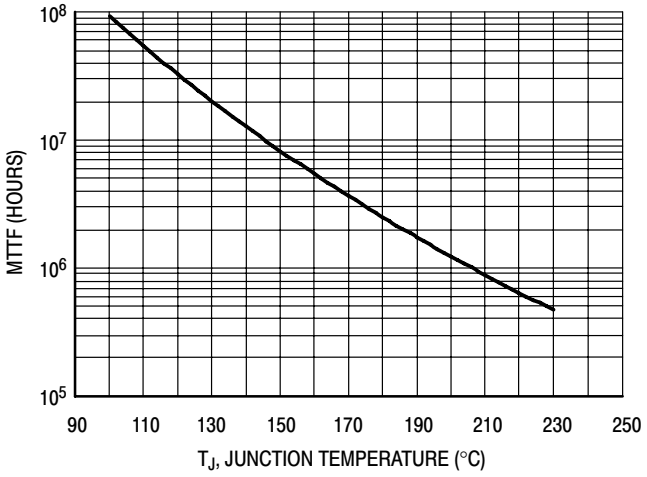


Figure 12. Power Gain versus Output Power



This above graph displays calculated MTTF in hours when the device is operated at V_{DD} = 28 Vdc, P_{out} = 27 W Avg., and η_D = 31%.

MTTF calculator available at http://www.freescale.com/rf. Select Software & Tools/Development Tools/Calculators to access MTTF calculators by product.

Figure 13. MTTF Factor versus Junction Temperature

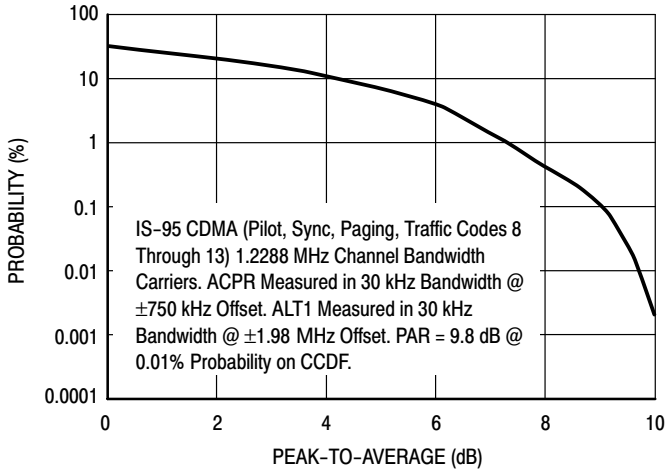


Figure 14. Single-Carrier CCDF N-CDMA

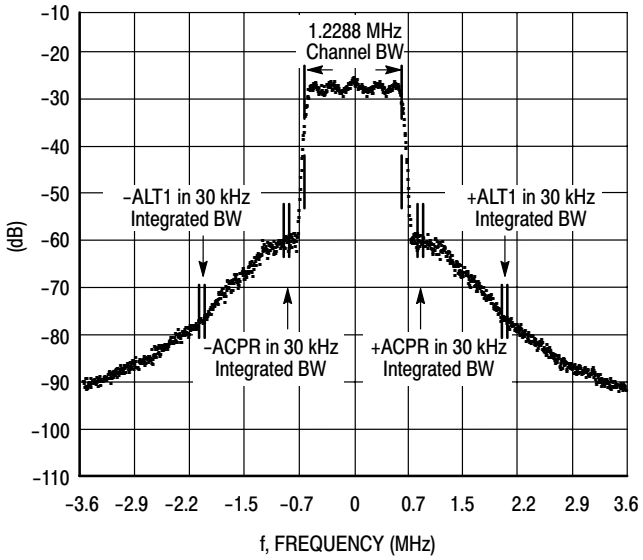


Figure 15. Single-Carrier N-CDMA Spectrum

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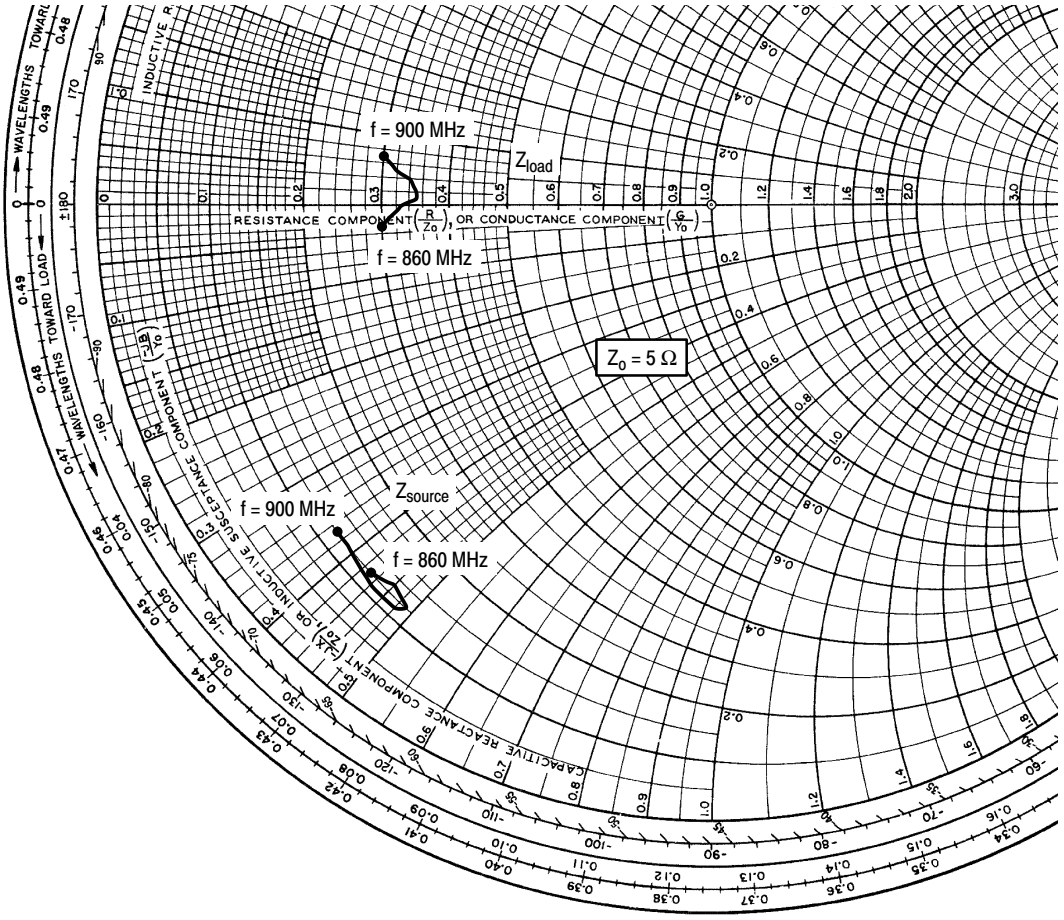


V_{DD} = 28 Vdc, I_{DQ} = 950 mA, P_{out} = 27 W Avg.

f MHz	Z_{source} Ω	Z_{load} Ω
860	0.62 - j2.13	1.48 - j0.14
865	0.64 - j2.31	1.56 - j0.09
870	0.62 - j2.45	1.66 - j0.02
875	0.59 - j2.43	1.73 + j0.04
880	0.57 - j2.42	1.74 + j0.11
885	0.54 - j2.36	1.68 + j0.19
890	0.57 - j2.18	1.61 + j0.25
895	0.58 - j1.94	1.52 + j0.33
900	0.59 - j1.86	1.48 + j0.37

Z_{source} = Test circuit impedance as measured from gate to ground.

Z_{load} = Test circuit impedance as measured from drain to ground.

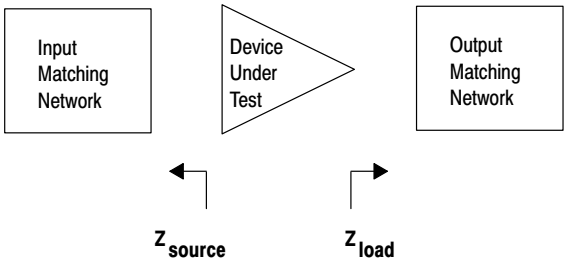
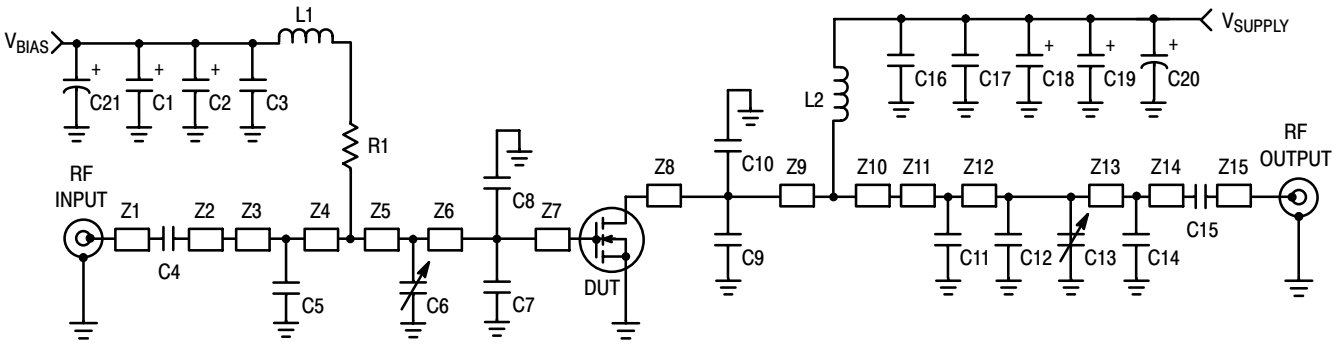


Figure 16. Series Equivalent Source and Load Impedance



Z1, Z15	0.150″ x 0.080″ Microstrip	Z9	0.620″ x 0.100″ x 0.420″ Taper
Z2	1.050″ x 0.080″ Microstrip	Z10	0.420″ x 0.100″ x 0.220″ Taper
Z3	0.330″ x 0.220″ Microstrip	Z11	0.325″ x 0.220″ Microstrip
Z4	0.220″ x 0.100″ x 0.420″ Taper	Z12	0.040″ x 0.220″ Microstrip
Z5	0.420″ x 0.100″ x 0.620″ Taper	Z13	0.475″ x 0.080″ Microstrip
Z6	0.200″ x 0.620″ Microstrip	Z14	0.400″ x 0.080″ Microstrip
Z7, Z8	0.040″ x 0.620″ Microstrip	PCB	Arlon CuClad 250GX-0300-55-22, 0.030″, ε_r = 2.55

Figure 17. MRF6S9125NR1(NBR1) Test Circuit Schematic

Table 7. MRF6S9125NR1(NBR1) Test Circuit Component Designations and Values

Part	Description	Part Number	Manufacturer
C1, C2	47 μF, 16 V Tantalum Capacitors	T491D476K016AT	Kemet
C3, C16, C17	0.56 μF, 50 V Chip Capacitors	C1825C564J5GAC	Kemet
C4	20 pF Chip Capacitor	ATC100B200FT500XT	ATC
C5, C7, C8	6.2 pF Chip Capacitors	ATC100B6R2BT500XT	ATC
C6, C13	0.8-8.0 pF Variable Capacitors, Gigatrim	27291SL	Johanson Dielectrics
C9, C10	11 pF Chip Capacitors	ATC100B110FT500XT	ATC
C11	5.1 pF Chip Capacitor	ATC100B5R1BT500XT	ATC
C12	4.7 pF Chip Capacitor	ATC100B4R7BT500XT	ATC
C14	0.3 pF Chip Capacitor	ATC700B0R3BT500XT	ATC
C15	39 pF Chip Capacitor	ATC700B390FT500XT	ATC
C18, C19	22 μF, 35 V Tantalum Capacitors	T491X226K035AT	Kemet
C20	470 μF, 63 V Electrolytic Capacitor	ESME630ELL471MK25S	United Chemi-Con
C21	100 μF, 50 V Electrolytic Capacitor	MCHT101M1HB-1017-RF	Multicomp
L1	7.15 nH Inductor	1606-7	Coilcraft
L2	8 nH Inductor	A03T-5	Coilcraft
R1	15 Ω, 1/4 W Chip Resistor	CRCW120615R0FKEA	Vishay

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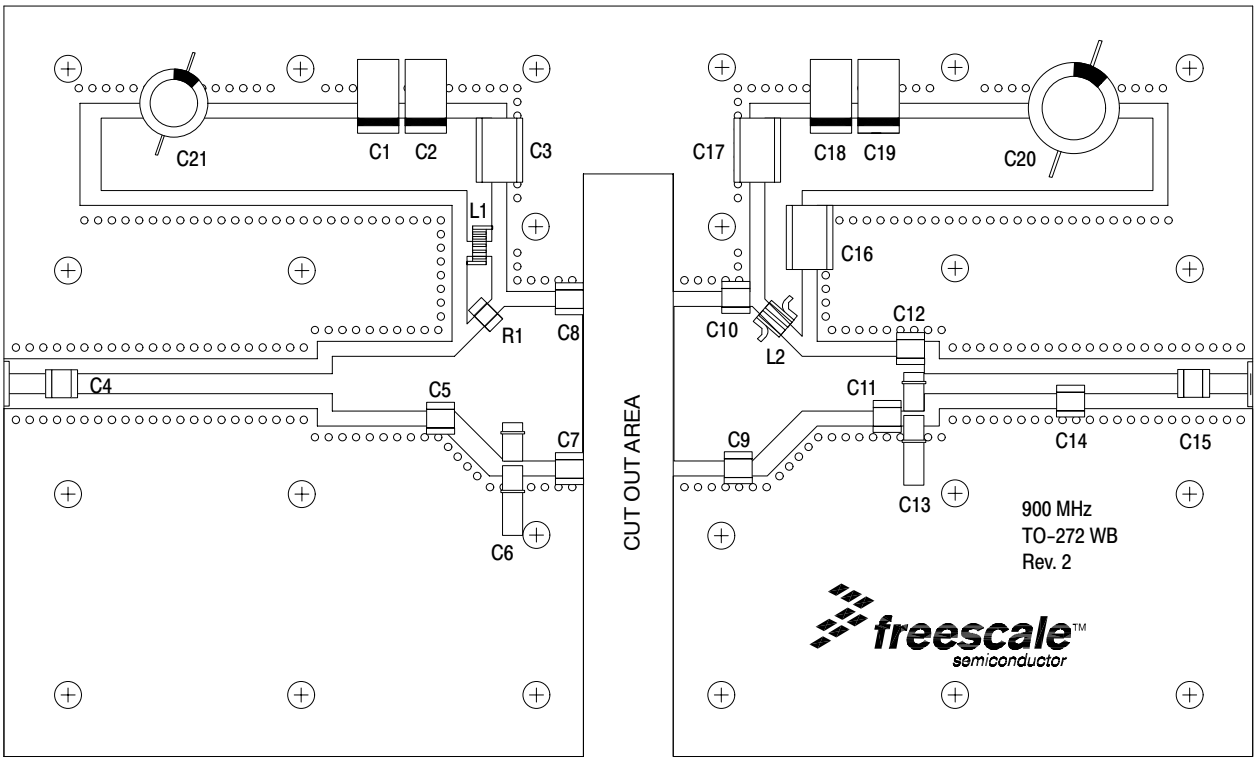


Figure 18. MRF6S9125NR1(NBR1) Test Circuit Component Layout

EDGE CHARACTERIZATION

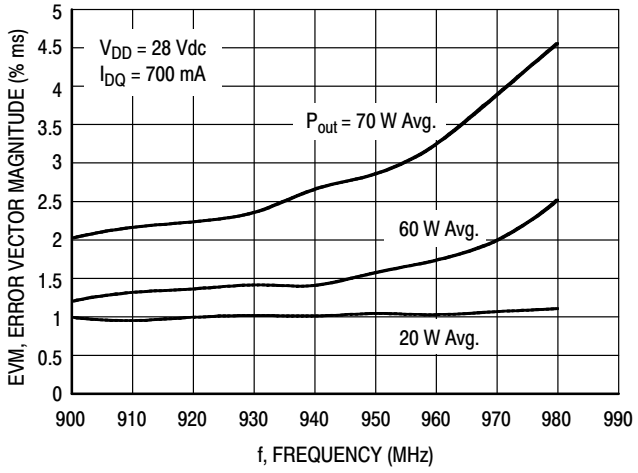


Figure 19. EVM versus Frequency

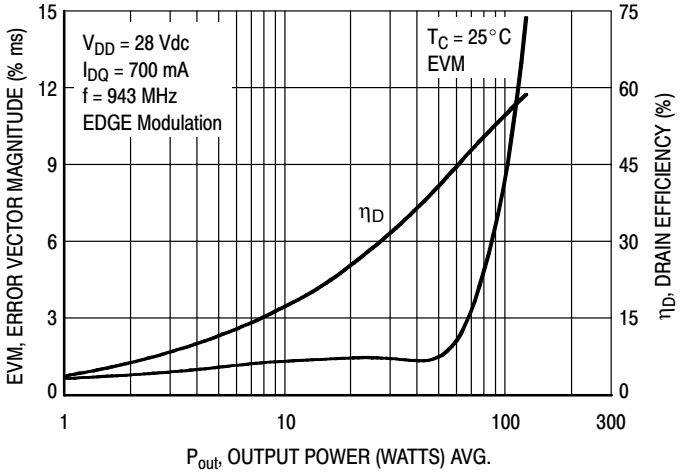


Figure 20. EVM and Drain Efficiency versus Output Power

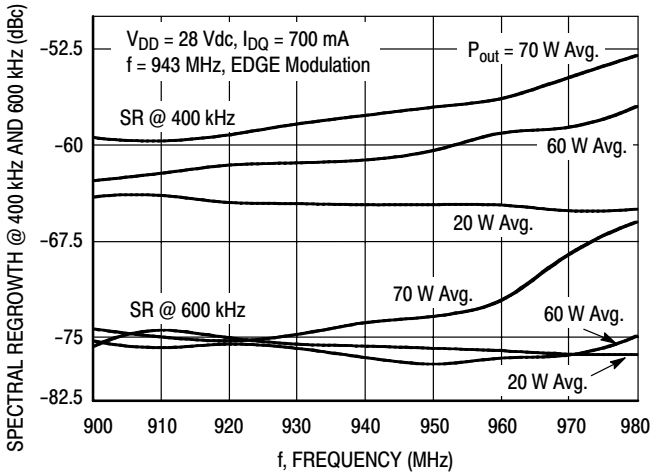


Figure 21. Spectral Regrowth at 400 kHz and 600 kHz versus Frequency

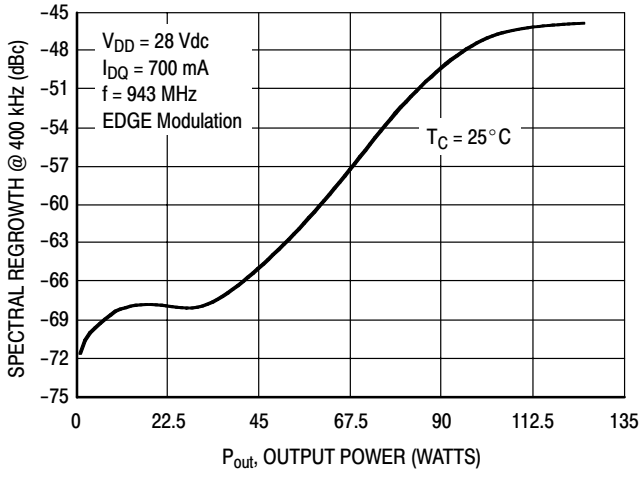


Figure 22. Spectral Regrowth at 400 kHz versus Output Power

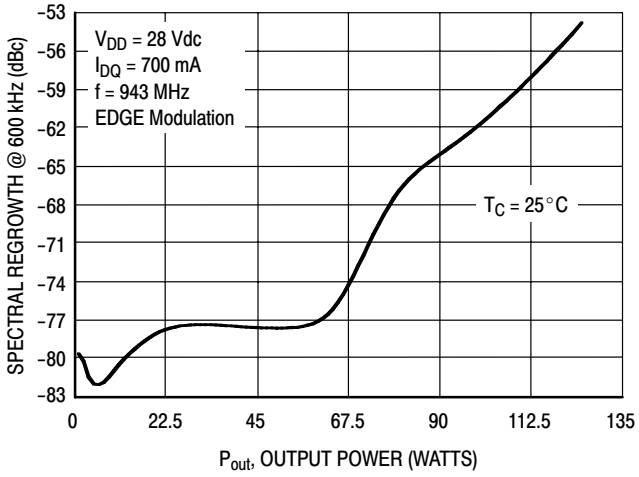


Figure 23. Spectral Regrowth at 600 kHz versus Output Power

EDGE CHARACTERIZATION TEST SIGNAL

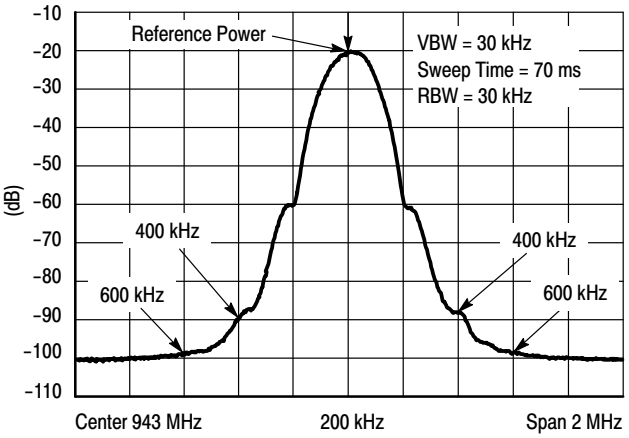
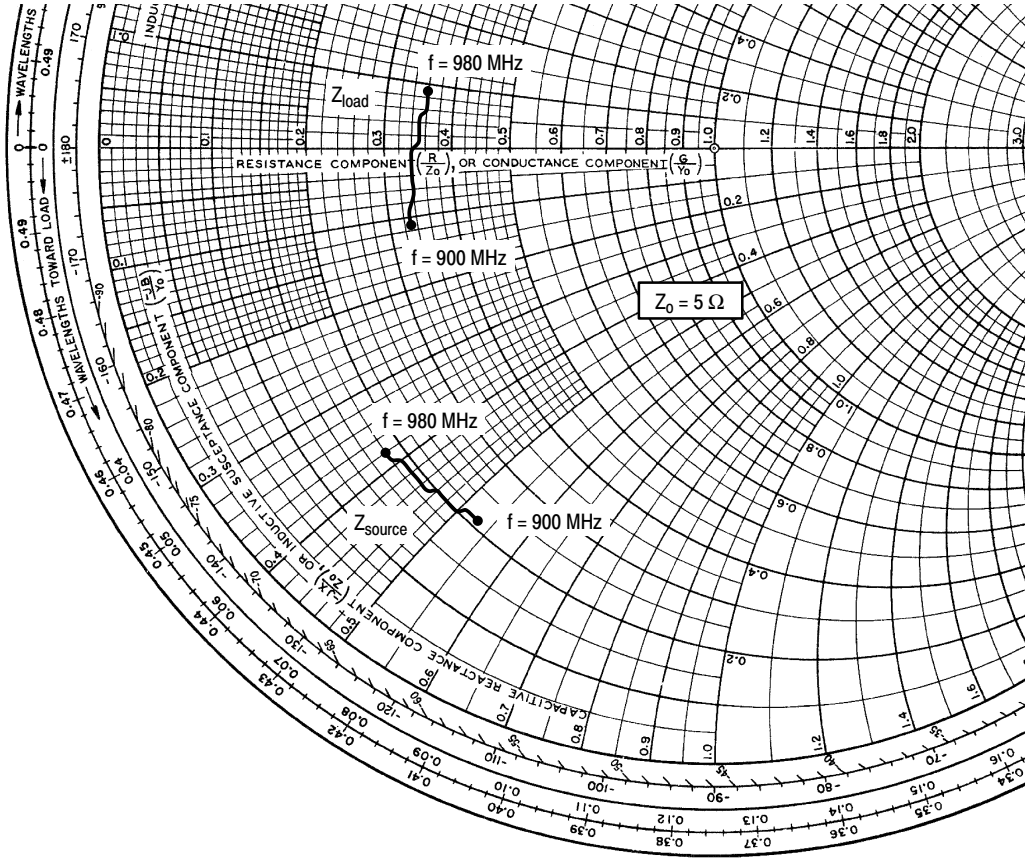


Figure 24. EDGE Spectrum

ARCHIVE INFORMATION



V_{DD} = 28 Vdc, I_{DQ} = 700 mA, P_{out} = 60 W Avg.

f MHz	Z_{source} Ω	Z_{load} Ω
900	1.04 - j2.65	1.66 - j0.56
905	1.04 - j2.60	1.66 - j0.50
910	1.03 - j2.55	1.67 - j0.43
915	1.02 - j2.51	1.68 - j0.37
920	1.01 - j2.46	1.68 - j0.31
925	1.01 - j2.41	1.69 - j0.24
930	1.00 - j2.36	1.70 - j0.18
935	0.98 - j2.32	1.70 - j0.12
940	0.97 - j2.27	1.71 - j0.05
945	0.96 - j2.22	1.72 - j0.00
950	0.95 - j2.17	1.73 + j0.07
955	0.94 - j2.12	1.74 + j0.14
960	0.94 - j2.08	1.76 + j0.20
965	0.93 - j2.03	1.77 + j0.26
970	0.93 - j1.99	1.79 + j0.32
975	0.92 - j1.94	1.80 + j0.39
980	0.92 - j1.90	1.82 + j0.45

Z_{source} = Test circuit impedance as measured from gate to ground.

Z_{load} = Test circuit impedance as measured from drain to ground.

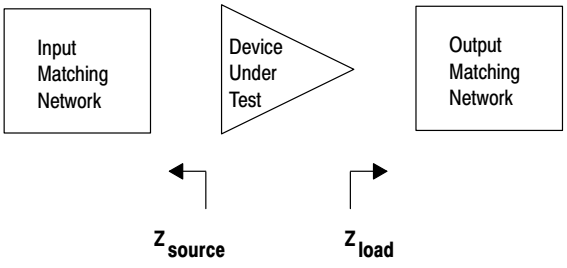


Figure 25. Series Equivalent Source and Load Impedance for EDGE Characterization Tests

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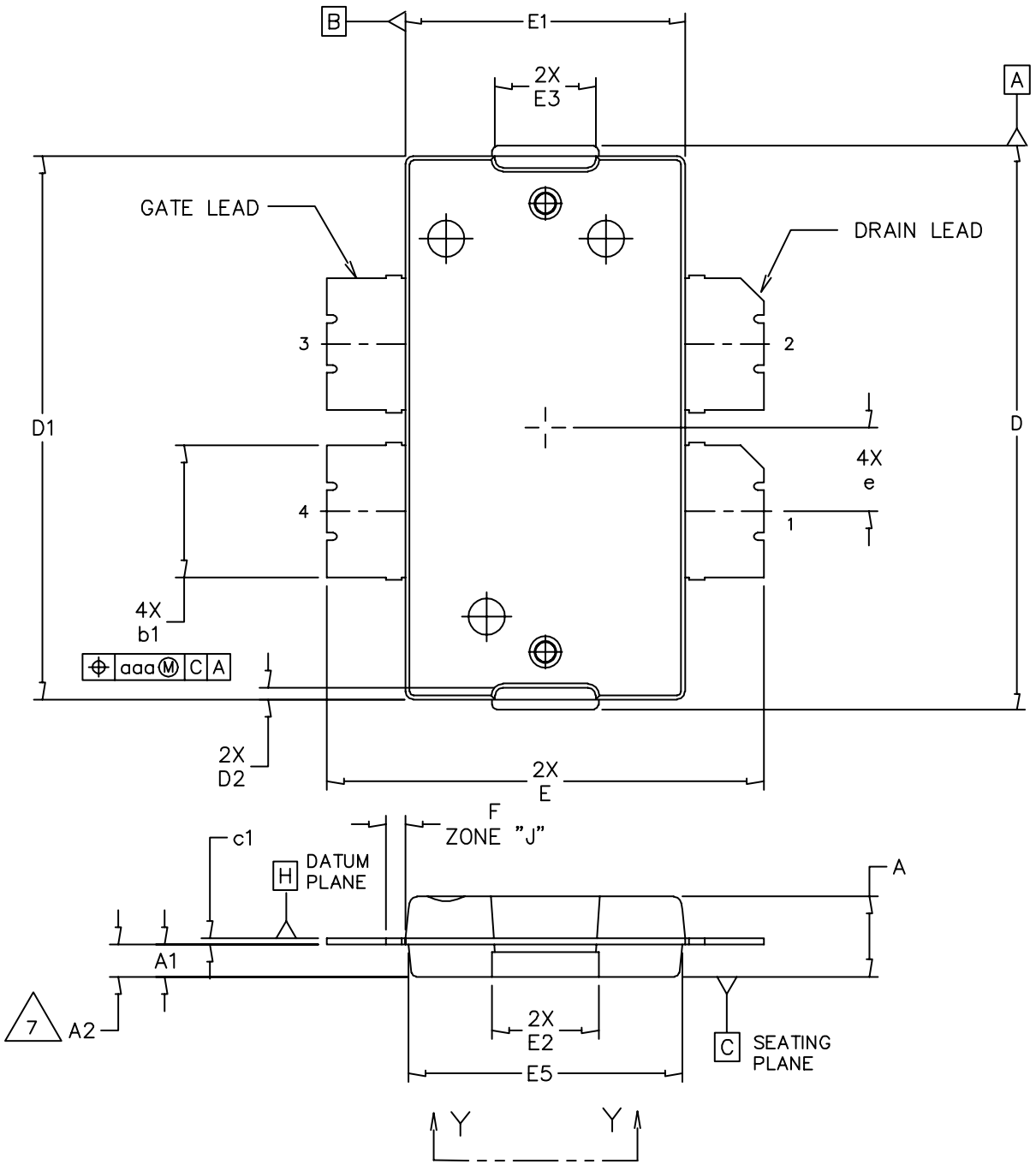
PACKAGE DIMENSIONS



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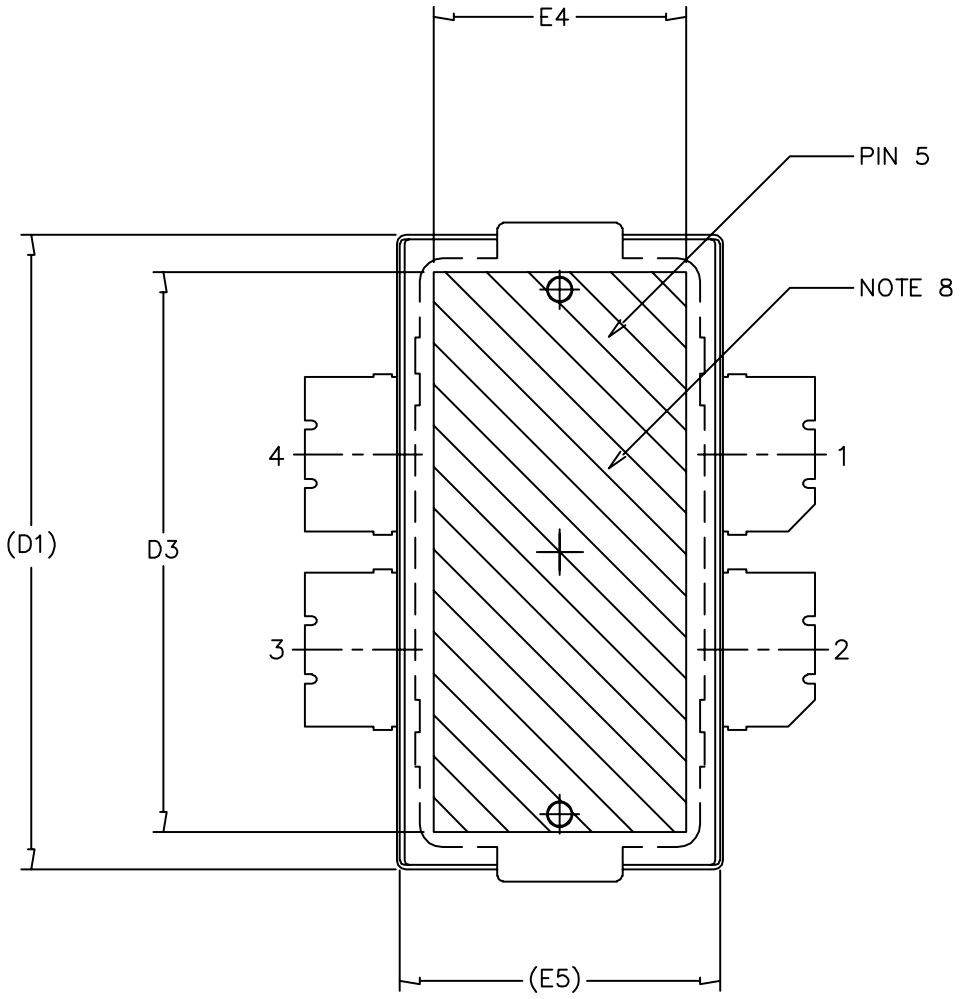

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TITLE: TO−270 4 LEAD, WIDE BODY	DOCUMENT NO: 98ASA10577D	REV: D
	CASE NUMBER: 1486−03	13 AUG 2007
	STANDARD: NON−JEDEC	

NOTES:

1. CONTROLLING DIMENSION: INCH

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

3. DATUM PLANE –H– IS LOCATED AT THE 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 "D" AND "E1" DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE PROTRUSION IS .006 PER SIDE. DIMENSIONS "D" AND "E1" DO INCLUDE MOLD MISMATCH AND ARE DETERMINED AT DATUM PLANE –H–.

5. DIMENSIONS "b1" DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE .005 TOTAL IN EXCESS OF THE "b1" DIMENSION AT MAXIMUM MATERIAL CONDITION.

6. DATUMS –A– AND –B– TO BE DETERMINED AT DATUM PLANE –H–.

7. DIMENSION A2 APPLIES WITHIN ZONE "J" ONLY.

8. HATCHING REPRESENTS THE EXPOSED AREA OF THE HEAT SLUG.

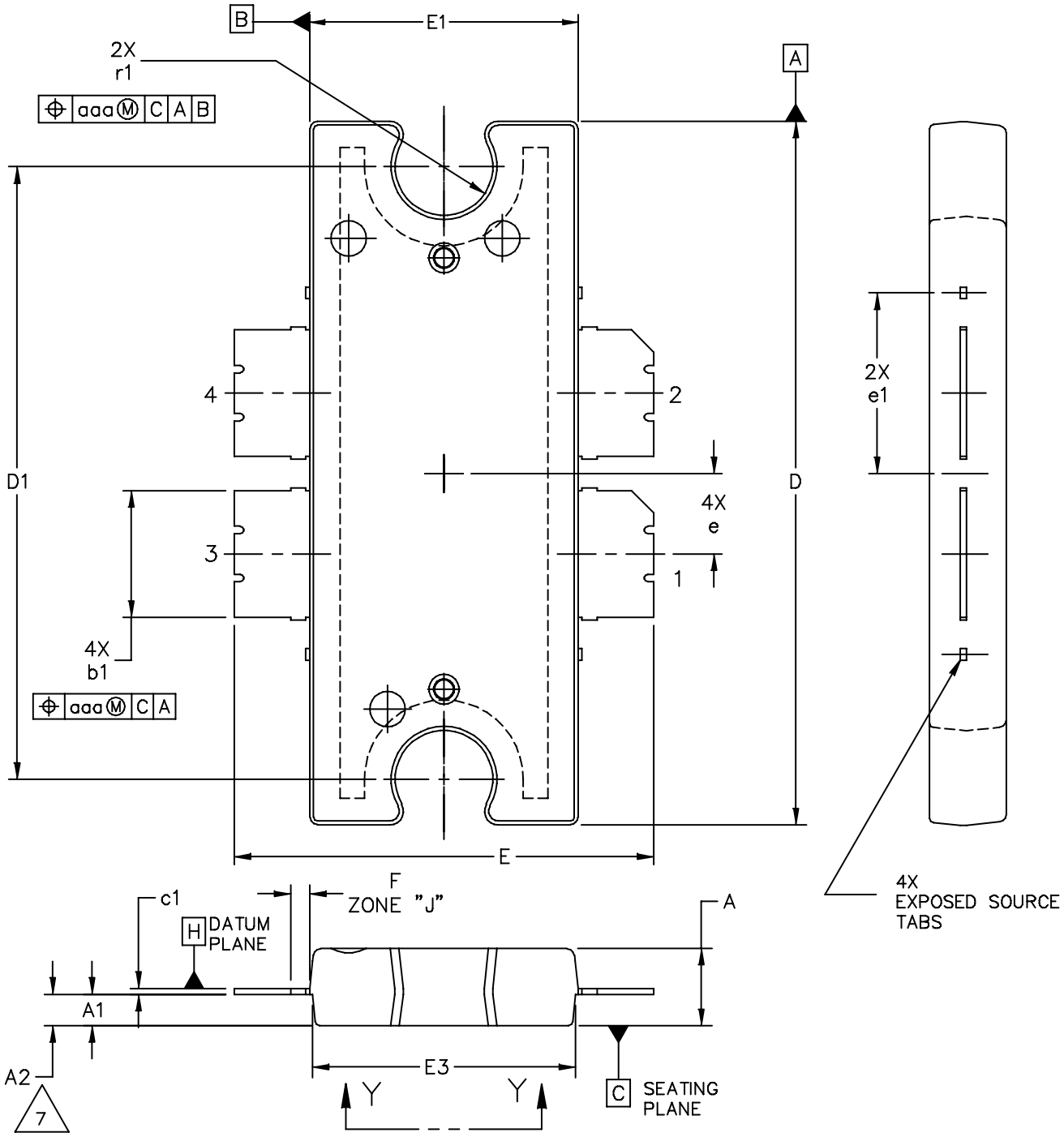
STYLE 1:
PIN 1 – DRAIN PIN 2 – DRAIN
PIN 3 – GATE PIN 4 – GATE
PIN 5 – SOURCE

DIM	INCH MIN	INCH MAX	MILLIMETER MIN	MILLIMETER MAX	DIM	INCH MIN	INCH MAX	MILLIMETER MIN	MILLIMETER MAX
A	.100	.104	2.54	2.64	F	.025 BSC		0.64 BSC	
A1	.039	.043	0.99	1.09	b1	.164	.170	4.17	4.32
A2	.040	.042	1.02	1.07	c1	.007	.011	.18	.28
D	.712	.720	18.08	18.29	e	.106 BSC		2.69 BSC	
D1	.688	.692	17.48	17.58	aaa	.004		.10	
D2	.011	.019	0.28	0.48					
D3	.600	---	15.24	---					
E	.551	.559	14	14.2					
E1	.353	.357	8.97	9.07					
E2	.132	.140	3.35	3.56					
E3	.124	.132	3.15	3.35					
E4	.270	---	6.86	---					
E5	.346	.350	8.79	8.89					

MECHANICAL OUTLINE | PRINT VERSION NOT TO SCALE

TITLE:	DOCUMENT NO: 98ASA10577D	REV: D
TO–270 4 LEAD WIDE BODY	CASE NUMBER: 1486–03	13 AUG 2007
	STANDARD: NON–JEDEC	

ARCHIVE INFORMATION



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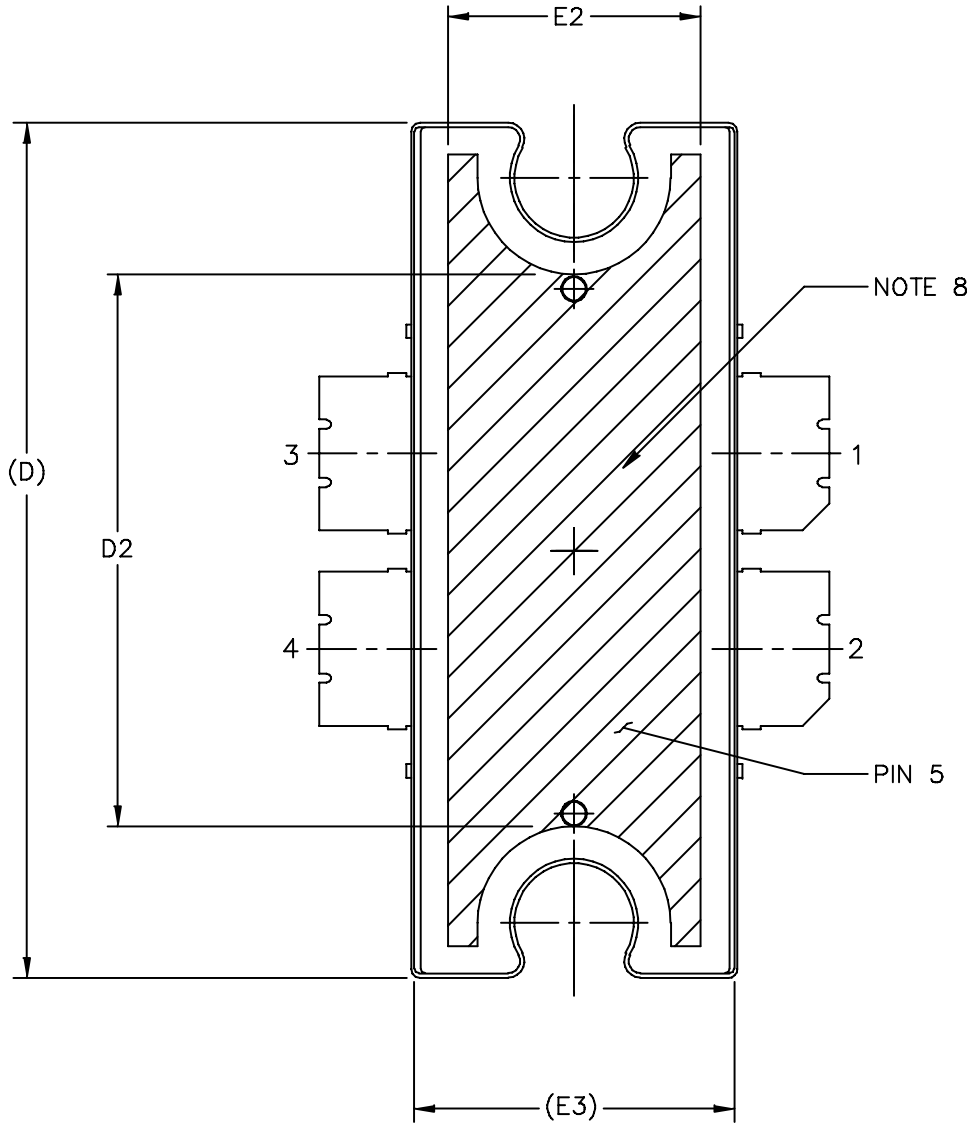
TITLE: TO−272 4 LEAD, WIDE BODY	DOCUMENT NO: 98ASA10575D	REV: E
	CASE NUMBER: 1484−04	31 AUG 2007
	STANDARD: NON−JEDEC	

ARCHIVE INFORMATION

ARCHIVE INFORMATION



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TITLE: TO−272 4 LEAD, WIDE BODY	DOCUMENT NO: 98ASA10575D	REV: E
	CASE NUMBER: 1484−04	31 AUG 2007
	STANDARD: NON−JEDEC	

NOTES:

1. CONTROLLING DIMENSION: INCH
2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M–1994.
3. DATUM PLANE H IS LOCATED AT THE 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 "D" AND "E1" DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE PROTRUSION IS .006 PER SIDE. DIMENSIONS "D" AND "E1" DO INCLUDE MOLD MISMATCH AND ARE DETERMINED AT DATUM PLANE H.
5. DIMENSIONS "b1" DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE .005 TOTAL IN EXCESS OF THE "b1" DIMENSION AT MAXIMUM MATERIAL CONDITION.
6. DATUM A AND B TO BE DETERMINED AT DATUM PLANE H.
7. DIMENSION A2 APPLIES WITHIN ZONE "J" ONLY.
8. HATCHING REPRESENTS EXPOSED AREA OF THE HEAT SLUG. HATCHED AREA SHOWN IS ON THE SAME PLANE.

STYLE 1:
PIN 1 – DRAIN PIN 2 – DRAIN
PIN 3 – GATE PIN 4 – GATE
PIN 5 – SOURCE

DIM	INCH MIN	INCH MAX	MILLIMETER MIN	MILLIMETER MAX	DIM	INCH MIN	INCH MAX	MILLIMETER MIN	MILLIMETER MAX
A	.100	.104	2.54	2.64	b1	.164	.170	4.17	4.32
A1	.039	.043	0.99	1.09	c1	.007	.011	.18	.28
A2	.040	.042	1.02	1.07	r1	.063	.068	1.60	1.73
D	.928	.932	23.57	23.67	e	.106 BSC		2.69 BSC	
D1	.810 BSC		20.57 BSC		e1	.239 INFO ONLY		6.07 INFO ONLY	
D2	.600	---	15.24	---	aaa	.004		.10	
E	.551	.559	14	14.2					
E1	.353	.357	8.97	9.07					
E2	.270	---	6.86	---					
E3	.346	.350	8.79	8.89					
F	.025 BSC		0.64 BSC						

MECHANICAL OUTLINE | PRINT VERSION NOT TO SCALE

TITLE: TO–272 4 LEAD WIDE BODY

DOCUMENT NO: 98ASA10575D | REV: E

CASE NUMBER: 1484–04 | 31 AUG 2007

STANDARD: NON–JEDEC

ARCHIVE INFORMATION

PRODUCT DOCUMENTATION

Refer to the following documents to aid your design process.

Application Notes

- AN1907: Solder Reflow Attach Method for High Power RF Devices in Plastic Packages
- AN1955: Thermal Measurement Methodology of RF Power Amplifiers
- AN3263: Bolt Down Mounting Method for High Power RF Transistors and RFICs in Over-Molded Plastic Packages

Engineering Bulletins

- EB212: Using Data Sheet Impedances for RF LDMOS Devices

REVISION HISTORY

The following table summarizes revisions to this document.

Revision	Date	Description
5	Aug. 2008	• Listed replacement part and Device Migration notification reference number, p. 1 • Removed Total Device Dissipation from Max Ratings table as data was redundant (information already provided in Thermal Characteristics table), p. 1 • Added Case Operating Temperature limit to the Maximum Ratings table and set limit to 150°C, p. 1 • Operating Junction Temperature increased from 200°C to 225°C in Maximum Ratings table, related "Continuous use at maximum temperature will affect MTTF" footnote added and changed 200°C to 225°C in Capable Plastic Package bullet, p. 1 • Corrected V_{DS} to V_{DD} in the RF test condition voltage callout for $V_{GS(Q)}$, and added "Measured in Functional Test", On Characteristics table, p. 2 • Removed Forward Transconductance from On Characteristics table as it no longer provided usable information, p. 2 • Updated PCB information to show more specific material details, Figs. 1, 17, Test Circuit Schematic, p. 4, 11 • Updated Part Numbers in Tables 6, 7, Component Designations and Values, to latest RoHS compliant part numbers, p. 4, 11 • Adjusted scale for Fig. 8, Intermodulation Distortion Products versus Tone Spacing, p. 7 • Removed lower voltage tests from Fig. 12, Power Gain versus Output Power, due to fixed tuned fixture limitations, p. 8 • Replaced Fig. 13, MTTF versus Junction Temperature with updated graph. Removed $Amps^2$ and listed operating characteristics and location of MTTF calculator for device, p. 8 • Replaced Case Outline 1486-03, Issue C, with 1486-03, Issue D, p. 16-18. Added pin numbers 1 through 4 on Sheet 1. • Replaced Case Outline 1484-04, Issue D, with 1484-04, Issue E, p. 19-21. Added pin numbers 1 through 4 on Sheet 1, replacing Gate and Drain notations with Pin 1 and Pin 2 designations. • Added Product Documentation and Revision History, p. 22

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