



Heterojunction Bipolar Transistor Technology (InGaP HBT)

Broadband High Linearity Amplifier

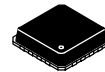
The MMG3006NT1 is a general purpose amplifier that is internally input prematched and designed for a broad range of Class A, small-signal, high linearity, general purpose applications. It is suitable for applications with frequencies from 400 to 2400 MHz such as cellular, PCS, WLL, PHS, VHF, UHF, UMTS and general small-signal RF.

Features

- Frequency: 400–2400 MHz
- P1dB: 33 dBm @ 900 MHz
- Small-signal gain: 17.5 dB @ 900 MHz
- Third order output intercept point: 49 dBm @ 900 MHz
- Single 5 V supply
- Internally input prematched to 50 ohms

MMG3006NT1

**400–2400 MHz, 17.5 dB
33 dBm
InGaP HBT GPA**



QFN 4 × 4–16L

Table 1. Typical Performance (1)

Characteristic	Symbol	900 MHz	1960 MHz	2140 MHz	Unit
Small-Signal Gain (S21)	G_p	17.5	14	14	dB
Input Return Loss (S11)	IRL	-8	-9	-12	dB
Output Return Loss (S22)	ORL	-13	-14	-18	dB
Power Output @1dB Compression	P1db	33	33	33	dBm
Third Order Output Intercept Point	OIP3	49	49	49	dBm

1. $V_{DC} = 5$ Vdc, $T_A = 25^\circ\text{C}$, 50 ohm system, application circuit tuned for specified frequency.

Table 2. Maximum Ratings

Rating	Symbol	Value	Unit
Supply Voltage	V_{DC}	6	V
Supply Current	I_{DC}	1400	mA
RF Input Power	P_{in}	28	dBm
Storage Temperature Range	T_{stg}	-65 to +150	$^\circ\text{C}$
Junction Temperature	T_J	175	$^\circ\text{C}$

Table 3. Thermal Characteristics

Characteristic	Symbol	Value (2)	Unit
Thermal Resistance, Junction to Case Case Temperature 89 $^\circ\text{C}$, 5 Vdc, 850 mA, no RF applied	$R_{\theta JC}$	7.8	$^\circ\text{C}/\text{W}$

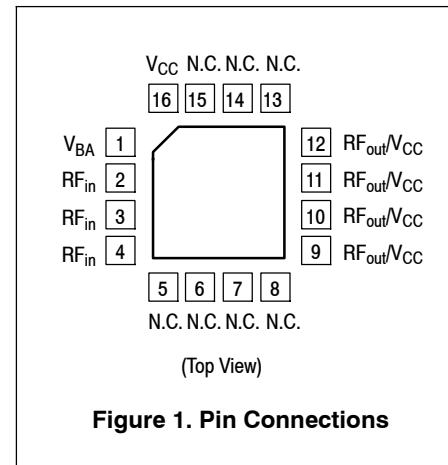
2. Refer to AN1955, *Thermal Measurement Methodology of RF Power Amplifiers*. Go to <http://www.nxp.com/RF> and search for AN1955.

Table 4. Electrical Characteristics ($V_{DC} = 5$ Vdc, 900 MHz, $T_A = 25^\circ\text{C}$, 50 ohm system, in NXP Application Circuit)

Characteristic	Symbol	Min	Typ	Max	Unit
Small-Signal Gain (S21)	G_p	16.5	17.5	—	dB
Input Return Loss (S11)	IRL	—	-8	—	dB
Output Return Loss (S22)	ORL	—	-13	—	dB
Power Output @ 1dB Compression	P1dB	—	33	—	dBm
Third Order Output Intercept Point	OIP3	—	49	—	dBm
Noise Figure	NF	—	6.6	—	dB
Supply Current	I_{DC}	760	850	960	mA
Supply Voltage	V_{DC}	—	5	—	V

Table 5. Functional Pin Description

Name	Pin Number	Description
V_{BA}	1	Bias voltage supply.
RF_{in}	2, 3, 4	RF input for the power amplifier. This pin is DC-coupled and requires a DC-blocking series capacitor.
RF_{out}/V_{CC}	9, 10, 11, 12	RF output for the power amplifier. This pin is DC-coupled and requires a DC-blocking series capacitor.
V_{CC}	16	Collector voltage supply.
GND	Backside Center Metal	The center metal base of the QFN package provides both DC and RF ground as well as heat sink contact for the power amplifier.

**Table 6. ESD Protection Characteristics**

Test Conditions/Test Methodology	Class
Human Body Model (per JESD 22-A114)	1C
Machine Model (per EIA/JESD 22-A115)	A
Charge Device Model (per JESD 22-C101)	IV

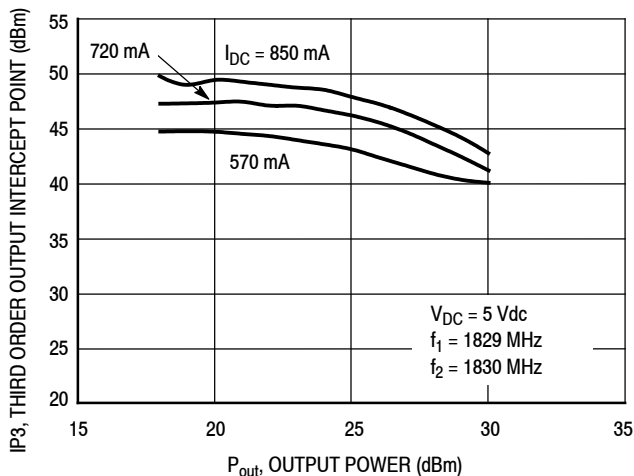
Table 7. Moisture Sensitivity Level

Test Methodology	Rating	Package Peak Temperature	Unit
Per JESD 22-A113, IPC/JEDEC J-STD-020	1	260	$^\circ\text{C}$

Table 8. Ordering Information

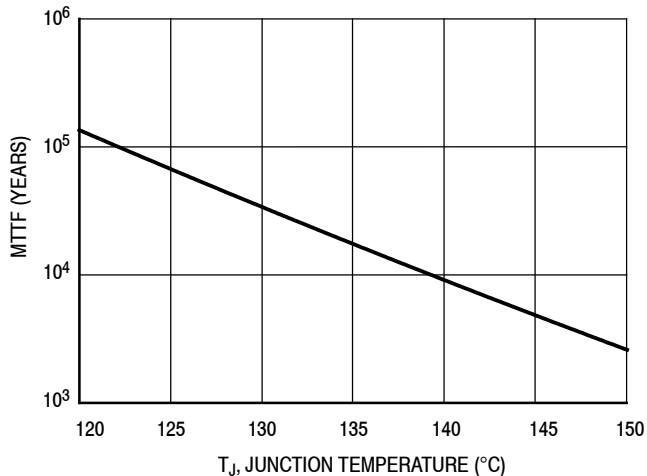
Device	Tape and Reel Information	Package
MMG3006NT1	T1 Suffix = 1,000 Units, 12 mm Tape Width, 13-inch Reel	QFN 4 × 4-16L

50 OHM TYPICAL CHARACTERISTICS



NOTE: Supply current is varied under external resistor control. Peak power is not reduced at any listed current. Similar results can be obtained for other frequency bands.

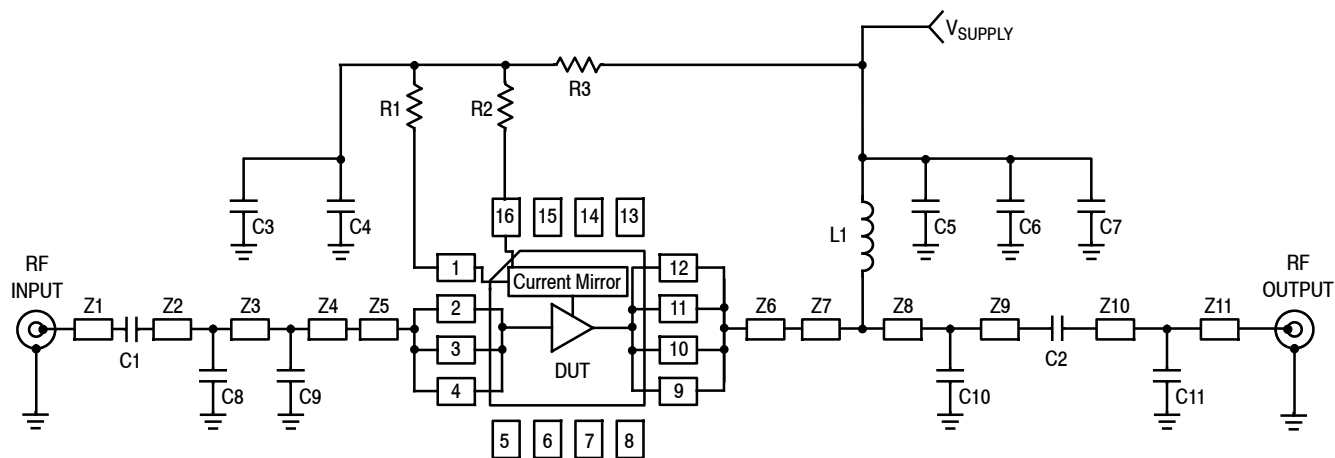
Figure 2. Third Order Output Intercept Point versus Output Power and Supply Current



NOTE: The MTTF is calculated with V_{DC} = 5 Vdc, I_{DC} = 850 mA

Figure 3. MTTF versus Junction Temperature

50 OHM APPLICATION CIRCUIT: 900 MHz



Z1	0.140" x 0.028" Microstrip	Z6	0.026" x 0.089" Microstrip
Z2, Z9, Z10	0.044" x 0.028" Microstrip	Z7	0.167" x 0.028" Microstrip
Z3	0.169" x 0.028" Microstrip	Z8	0.178" x 0.028" Microstrip
Z4	0.177" x 0.028" Microstrip	Z11	0.096" x 0.028" Microstrip
Z5	0.026" x 0.053" Microstrip	PCB	Isola FR408, 0.014", $\epsilon_r = 3.7$

Figure 4. 50 Ohm Test Circuit Schematic

Table 9. 50 Ohm Test Circuit Component Designations and Values

Part	Description	Part Number	Manufacturer
C1, C2	15 pF Chip Capacitors	ECUV1H150JCV	Panasonic
C3, C6	0.01 μ F Chip Capacitors	C0603C103J5RAC	Kemet
C4, C7	0.1 μ F Chip Capacitors	C0603C104J5RAC	Kemet
C5	2.2 μ F Chip Capacitor	T491A225K016AT	Kemet
C8	6.8 pF Chip Capacitor	06035J6R8BS	AVX
C9, C11	3.9 pF Chip Capacitors	06035J3R9BS	AVX
C10	5.6 pF Chip Capacitor	06035J5R6BS	AVX
L1	15 nH Chip Inductor	1008CS-150XJB	Coilcraft
R1	100 Ω , 1/4 W Chip Resistor	ERJ8GEYJ101V	Panasonic
R2, R3	0 Ω , 1/10 W Chip Resistors	CRCW06030000FKEA	Vishay

50 OHM APPLICATION CIRCUIT: 900 MHz

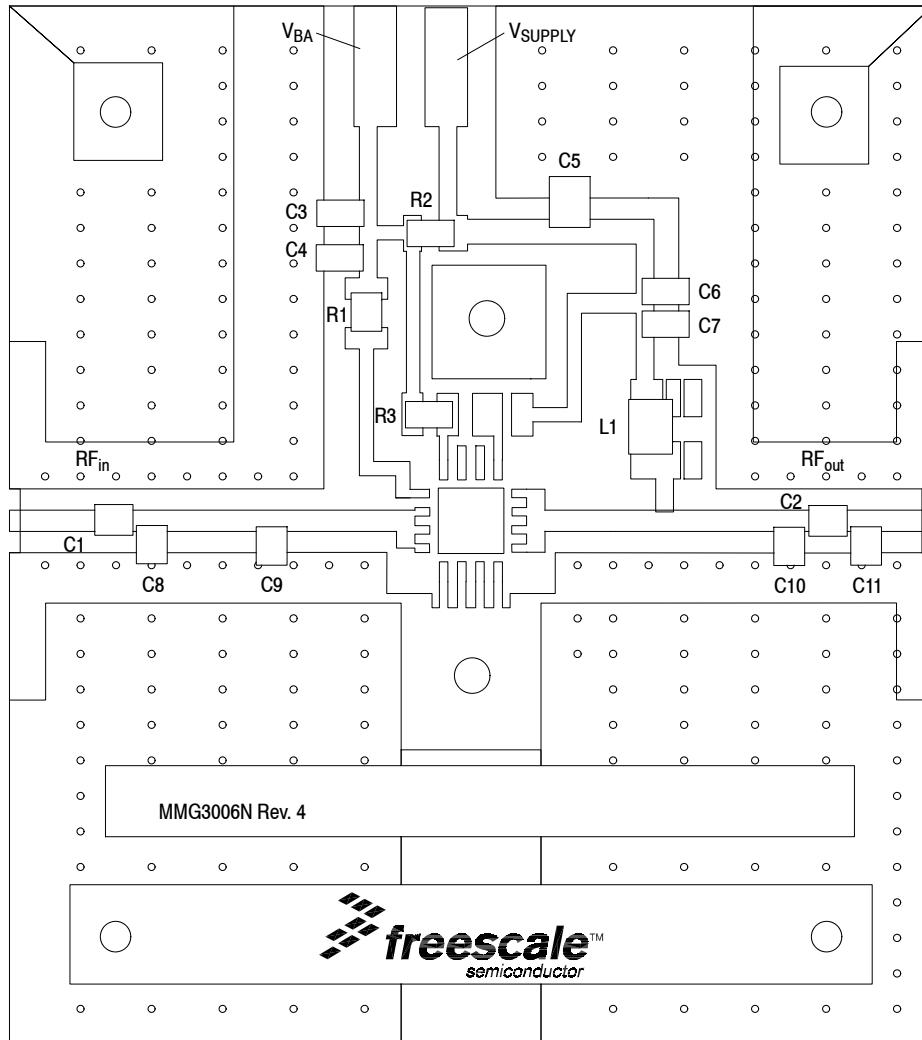


Figure 5. 50 Ohm Test Circuit Component Layout

50 OHM TYPICAL CHARACTERISTICS: 900 MHz

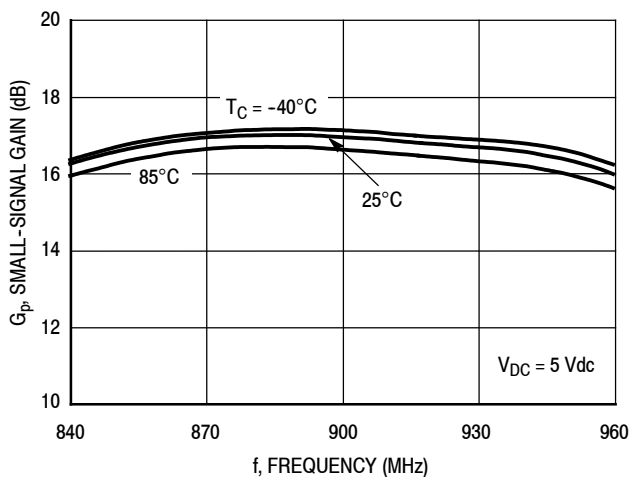


Figure 6. Small-Signal Gain (S21) versus Frequency

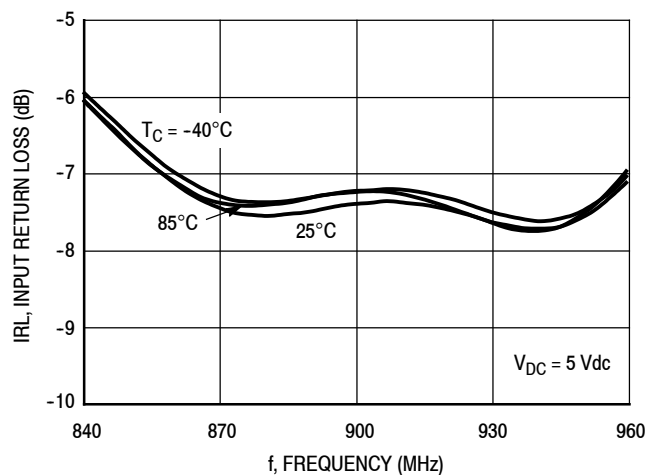


Figure 7. Input Return Loss (S11) versus Frequency

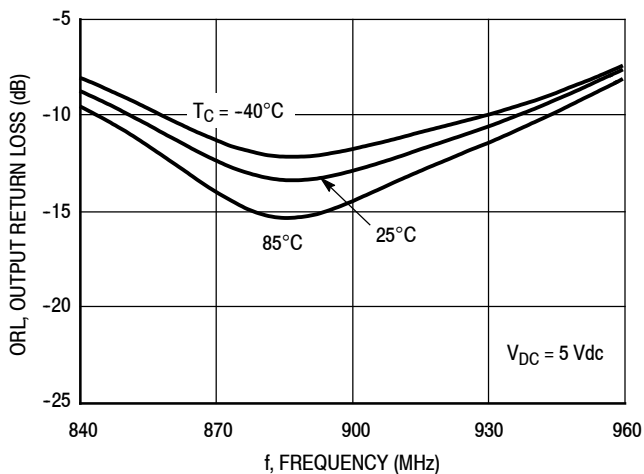


Figure 8. Output Return Loss (S22) versus Frequency

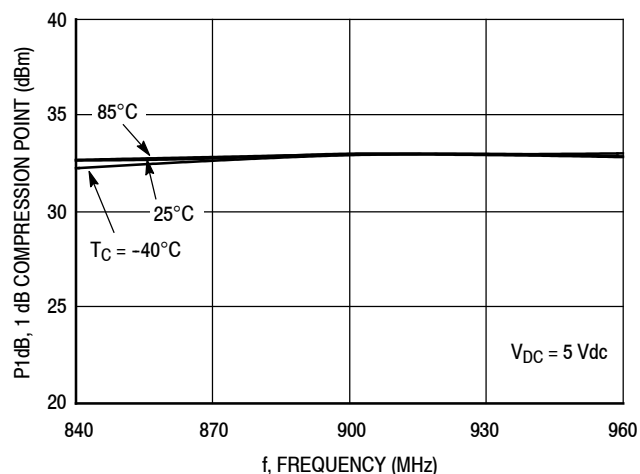


Figure 9. P1dB versus Frequency

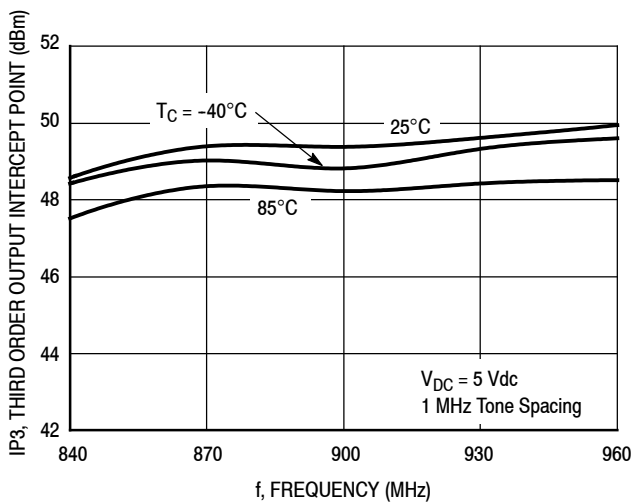


Figure 10. Third Order Output Intercept Point versus Frequency

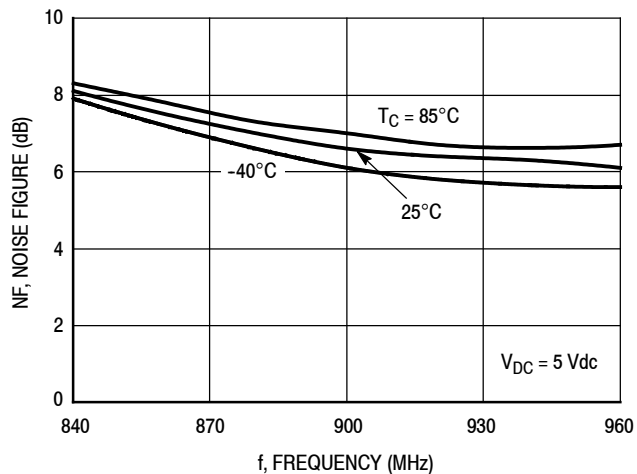


Figure 11. Noise Figure versus Frequency

50 OHM TYPICAL CHARACTERISTICS: 900 MHz

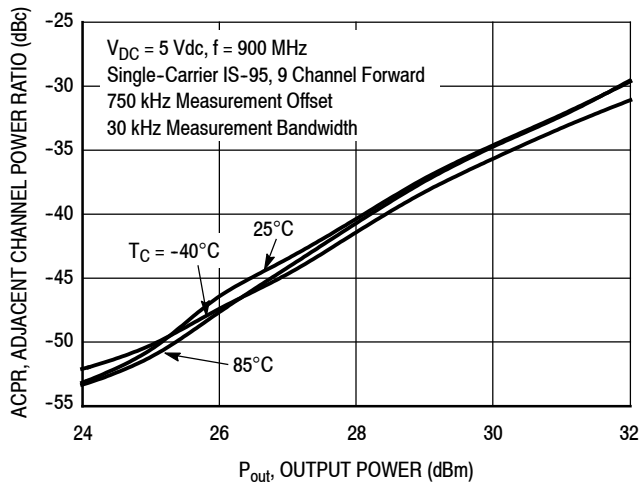


Figure 12. IS-95 Adjacent Channel Power Ratio versus Output Power

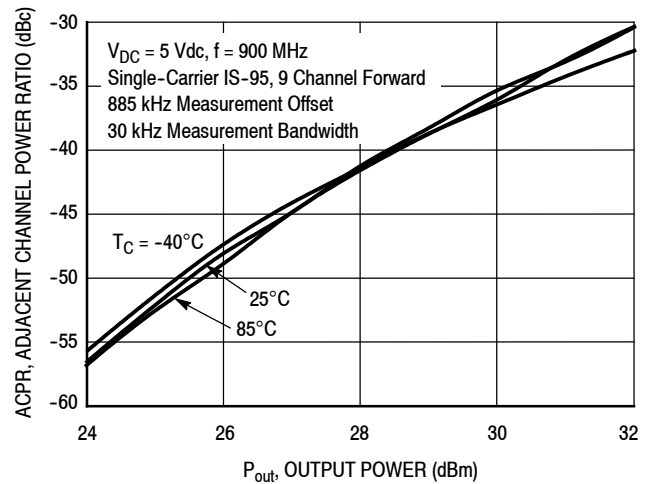


Figure 13. IS-95 Adjacent Channel Power Ratio versus Output Power

50 OHM APPLICATION CIRCUIT: 1960 MHz

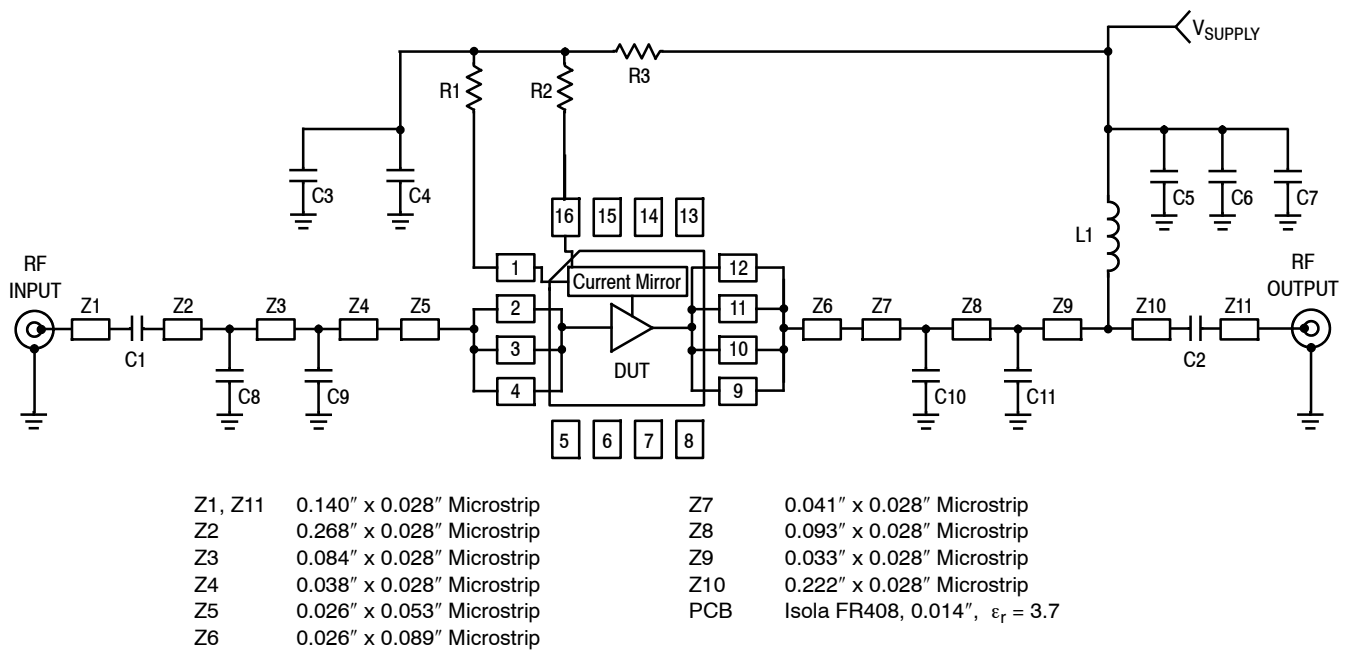


Figure 14. 50 Ohm Test Circuit Schematic

Table 10. 50 Ohm Test Circuit Component Designations and Values

Part	Description	Part Number	Manufacturer
C1, C2	15 pF Chip Capacitors	ECUV1H150JCV	Panasonic
C3, C6	0.01 μ F Chip Capacitors	C0603C103J5RAC	Kemet
C4, C7	0.1 μ F Chip Capacitors	C0603C104J5RAC	Kemet
C5	2.2 μ F Chip Capacitor	T491A225K016AT	Kemet
C8, C9	3.0 pF Chip Capacitors	06035J3R0BS	AVX
C10	2.0 pF Chip Capacitor	06035J2R0BS	AVX
C11	2.7 pF Chip Capacitor	06035J2R7BS	AVX
L1	15 nH Chip Inductor	1008CS-150XJB	Coilcraft
R1	100 Ω , 1/4 W Chip Resistor	ERJ8GEYJ101V	Panasonic
R2, R3	0 Ω , 1/10 W Chip Resistors	CRCW06030000FKEA	Vishay

50 OHM APPLICATION CIRCUIT: 1960 MHz

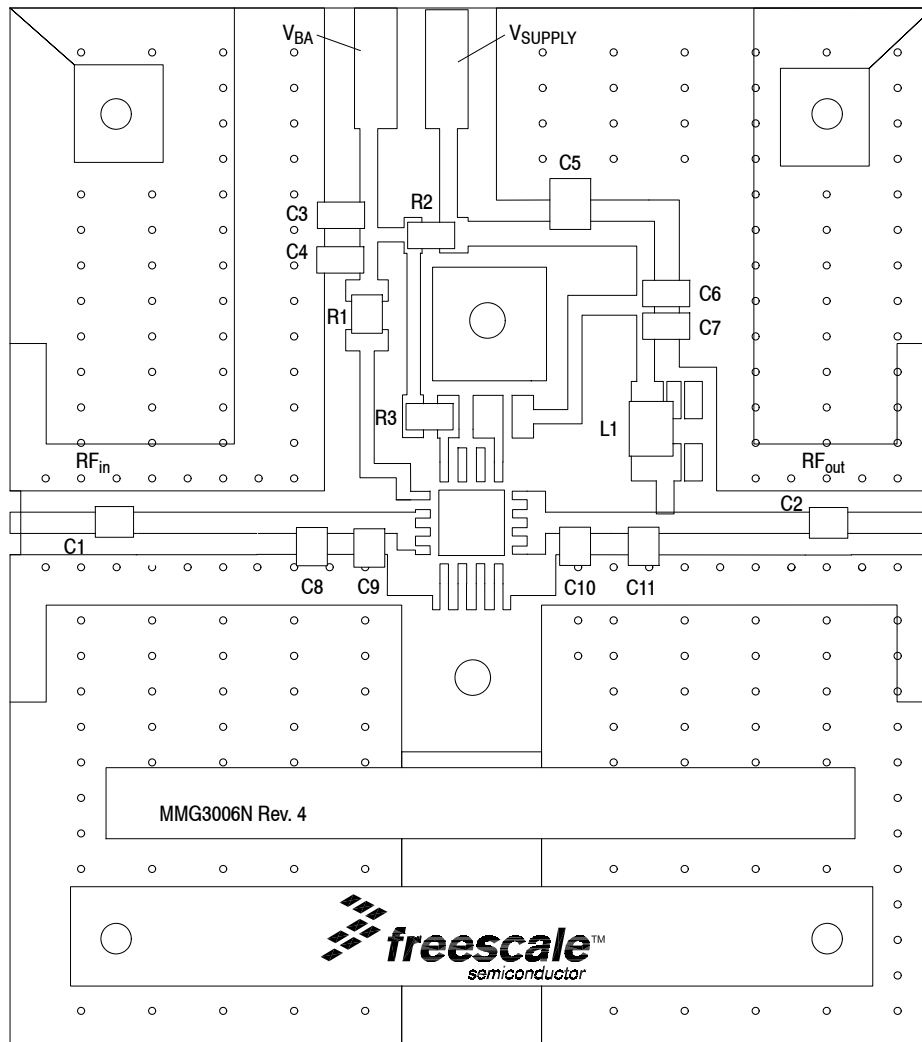


Figure 15. 50 Ohm Test Circuit Component Layout

50 OHM TYPICAL CHARACTERISTICS: 1960 MHz

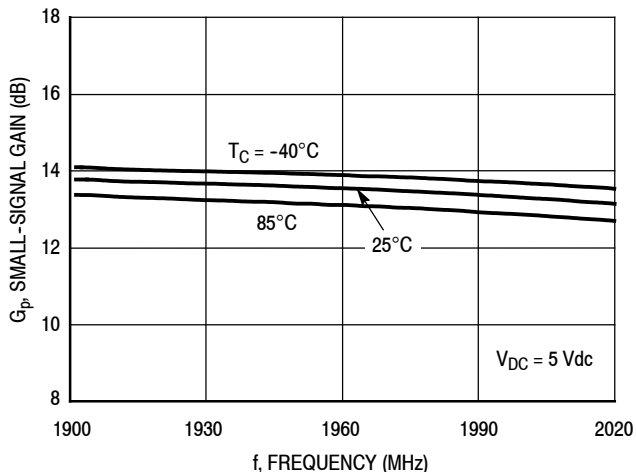


Figure 16. Small-Signal Gain (S21) versus Frequency

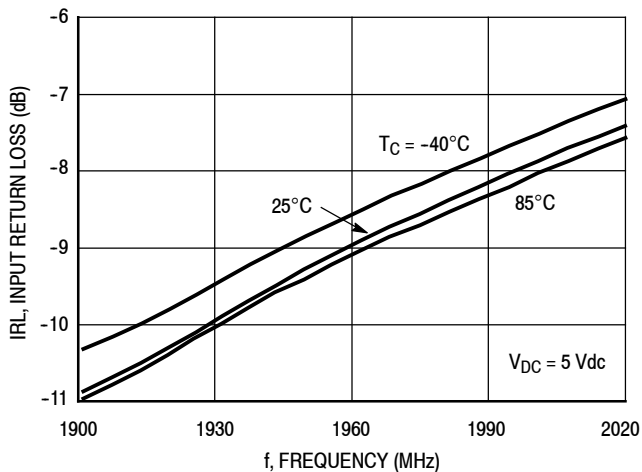


Figure 17. Input Return Loss (S11) versus Frequency

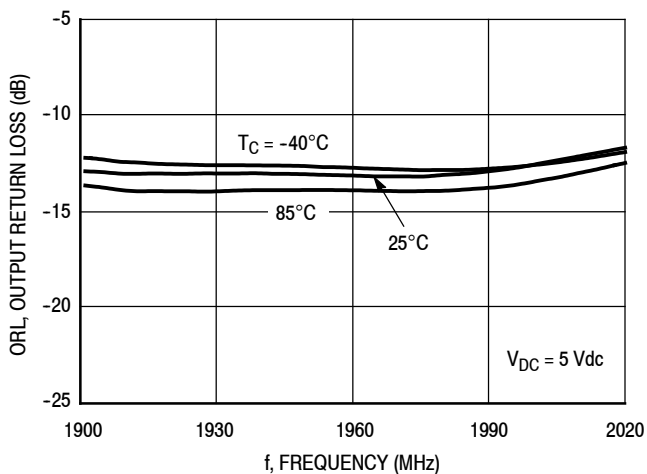


Figure 18. Output Return Loss (S22) versus Frequency

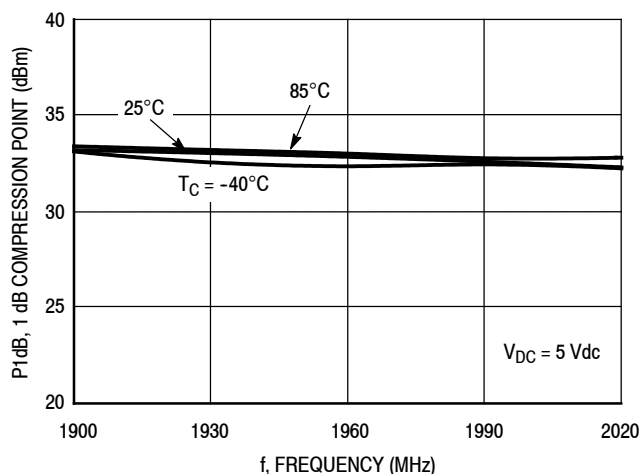


Figure 19. P1dB versus Frequency

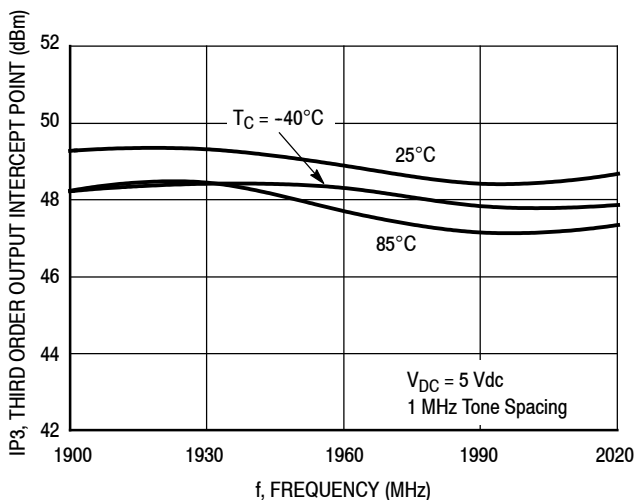


Figure 20. Third Order Output Intercept Point versus Frequency

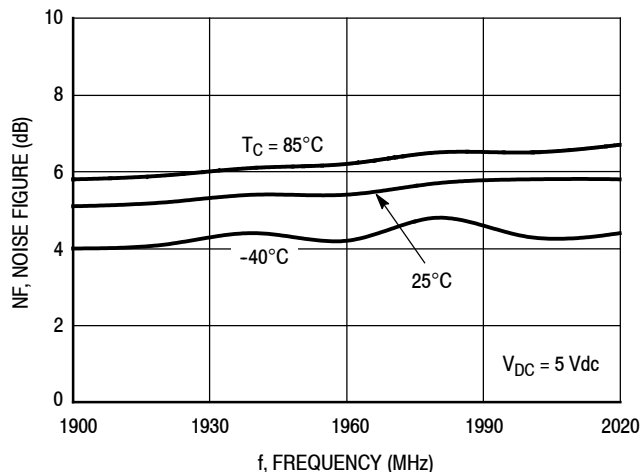


Figure 21. Noise Figure versus Frequency

50 OHM TYPICAL CHARACTERISTICS: 1960 MHz

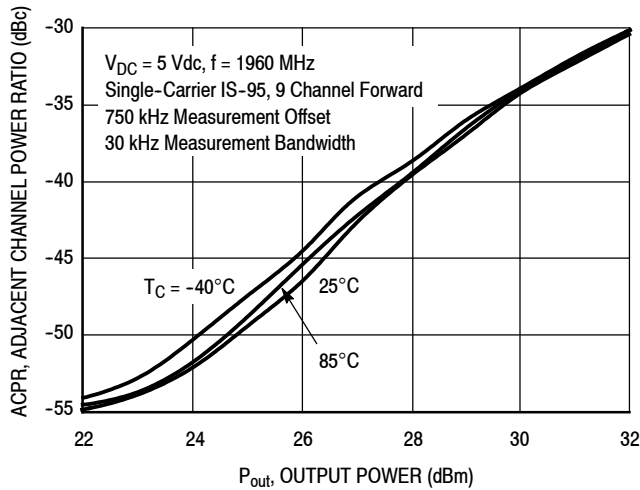


Figure 22. IS-95 Adjacent Channel Power Ratio versus Output Power

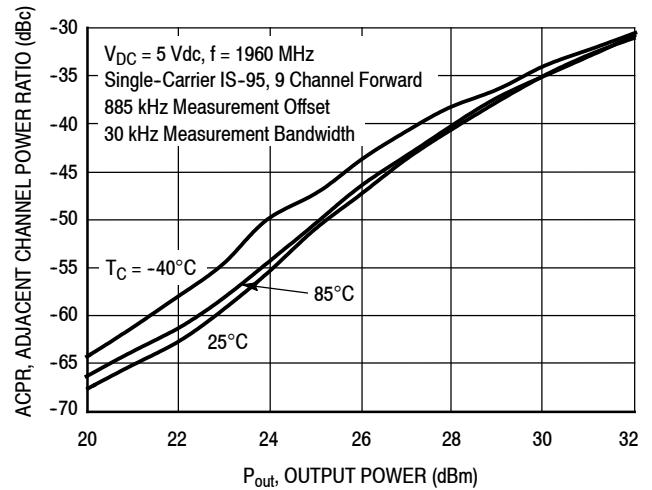


Figure 23. IS-95 Adjacent Channel Power Ratio versus Output Power

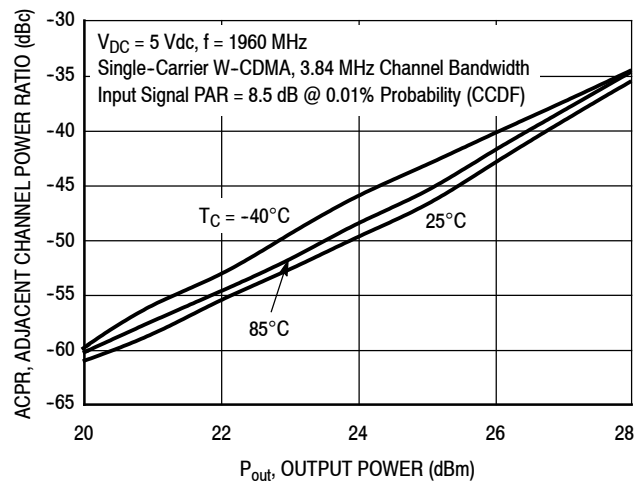


Figure 24. Single-Carrier W-CDMA Adjacent Channel Power Ratio versus Output Power

50 OHM APPLICATION CIRCUIT: 2140 MHz

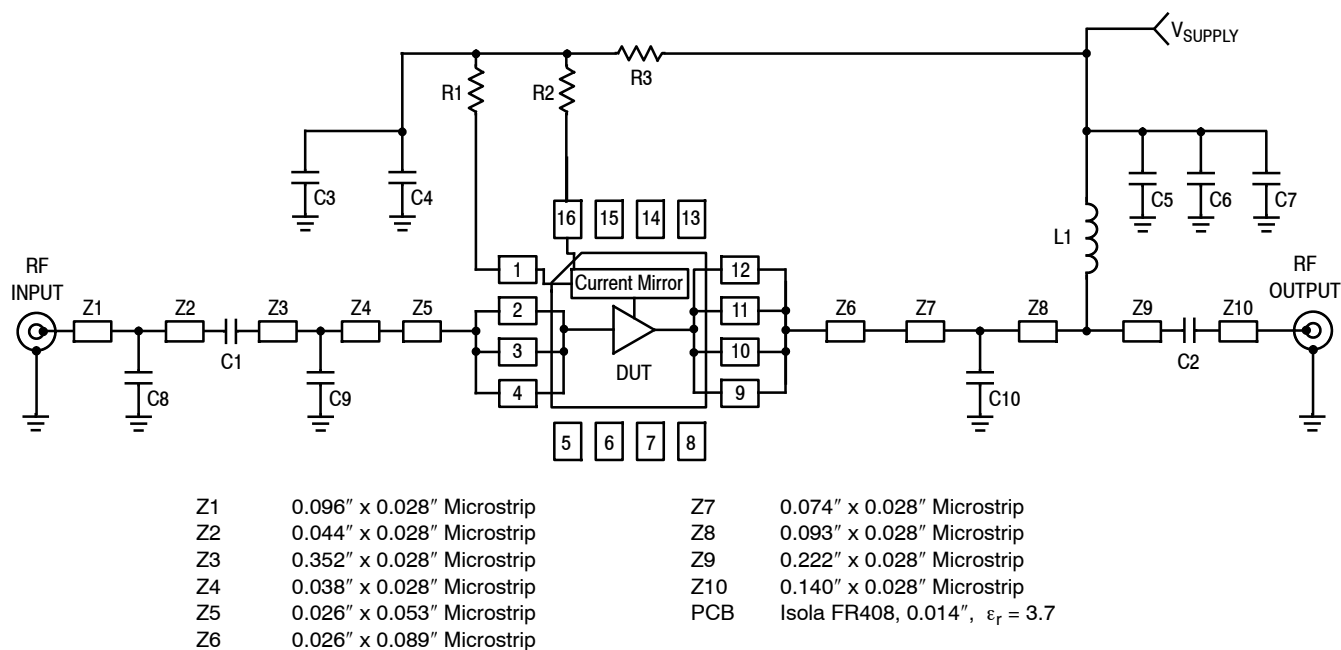


Figure 25. 50 Ohm Test Circuit Schematic

Table 11. 50 Ohm Test Circuit Component Designations and Values

Part	Description	Part Number	Manufacturer
C1, C2	15 pF Chip Capacitors	ECUV1H150JCV	Panasonic
C3, C6	0.01 μ F Chip Capacitors	C0603C103J5RAC	Kemet
C4, C7	0.1 μ F Chip Capacitors	C0603C104J5RAC	Kemet
C5	2.2 μ F Chip Capacitor	T491A225K016AT	Kemet
C8	0.5 pF Chip Capacitor	06035J0R5BS	AVX
C9	3.6 pF Chip Capacitor	06035J3R6BS	AVX
C10	3.9 pF Chip Capacitor	06035J3R9BS	AVX
L1	15 nH Chip Inductor	1008CS-150XJB	Coilcraft
R1	100 Ω , 1/4 W Chip Resistor	ERJ8GEYJ101V	Panasonic
R2, R3	0 Ω , 1/10 W Chip Resistors	CRCW06030000FKEA	Vishay

50 OHM APPLICATION CIRCUIT: 2140 MHz

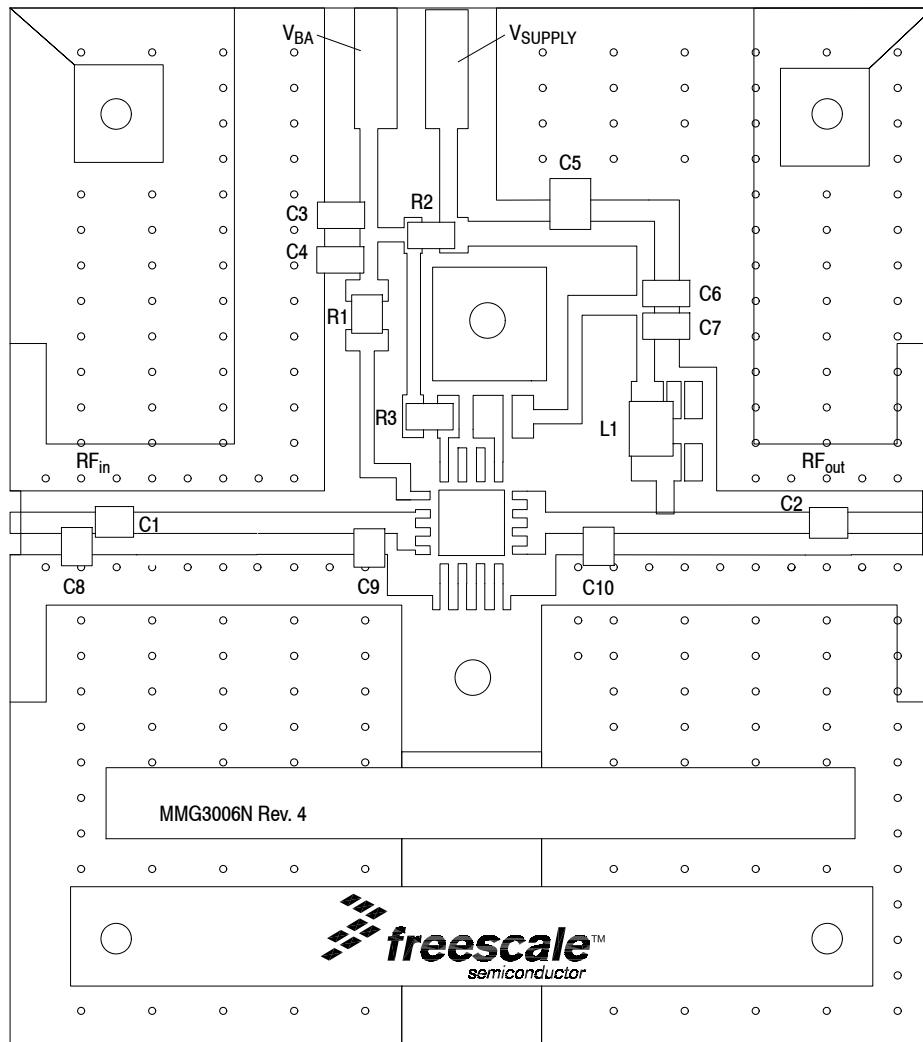


Figure 26. 50 Ohm Test Circuit Component Layout

50 OHM TYPICAL CHARACTERISTICS: 2140 MHz

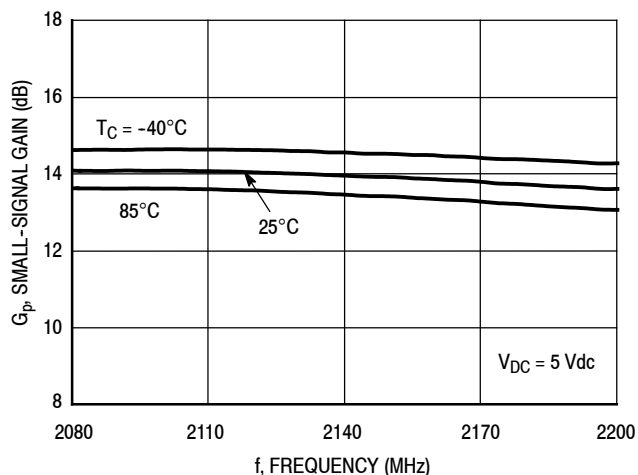


Figure 27. Small-Signal Gain (S21) versus Frequency

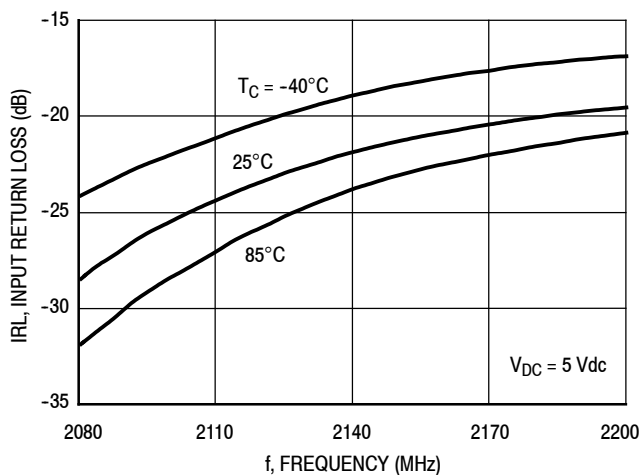


Figure 28. Input Return Loss (S11) versus Frequency

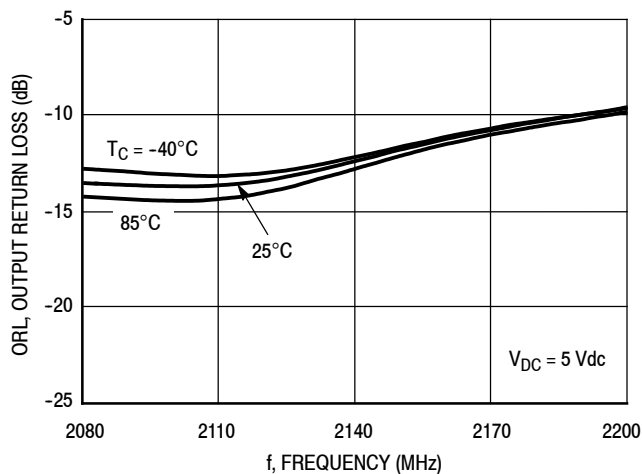


Figure 29. Output Return Loss (S22) versus Frequency

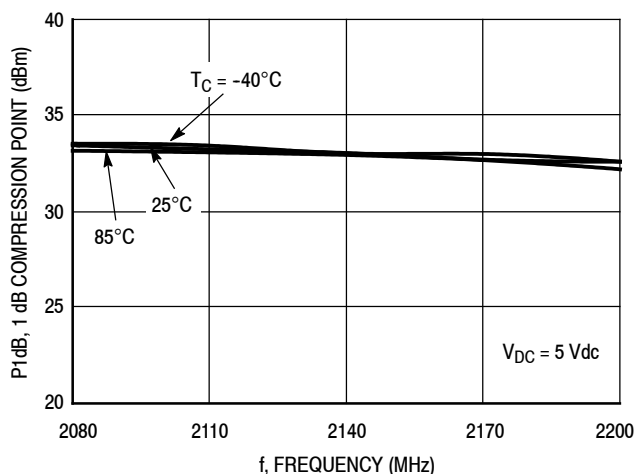


Figure 30. P1dB versus Frequency

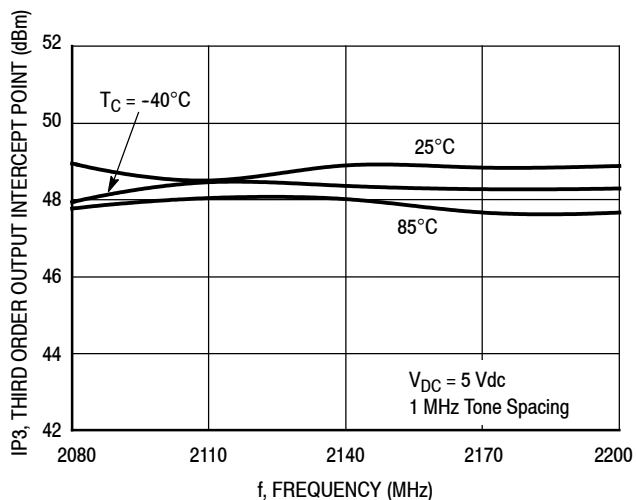


Figure 31. Third Order Output Intercept Point versus Frequency

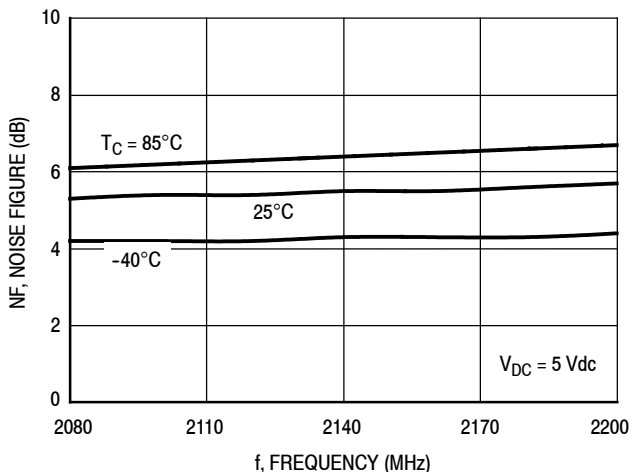


Figure 32. Noise Figure versus Frequency

50 OHM TYPICAL CHARACTERISTICS: 2140 MHz

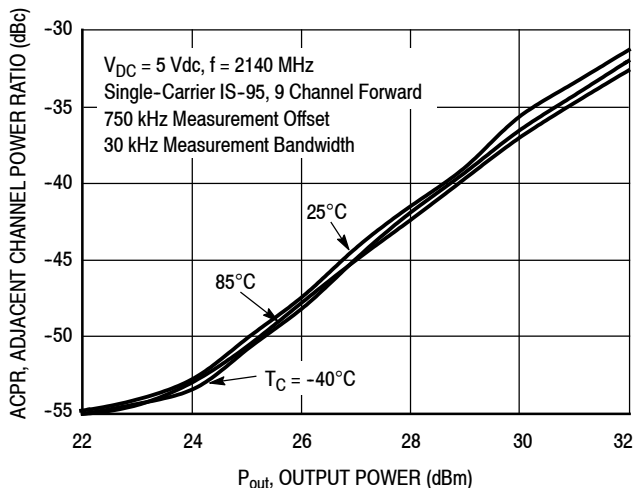


Figure 33. IS-95 Adjacent Channel Power Ratio versus Output Power

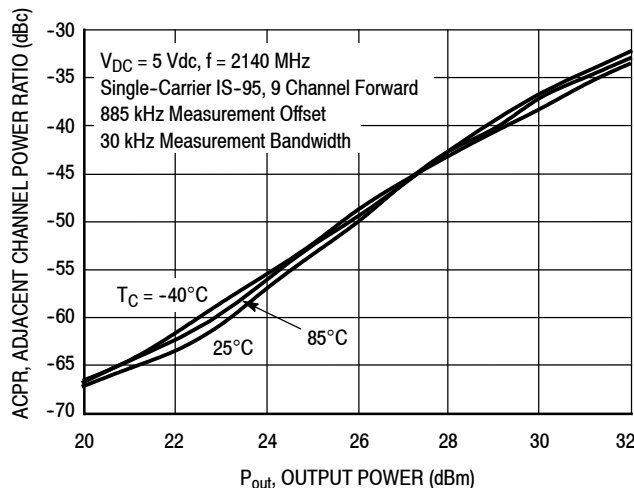


Figure 34. IS-95 Adjacent Channel Power Ratio versus Output Power

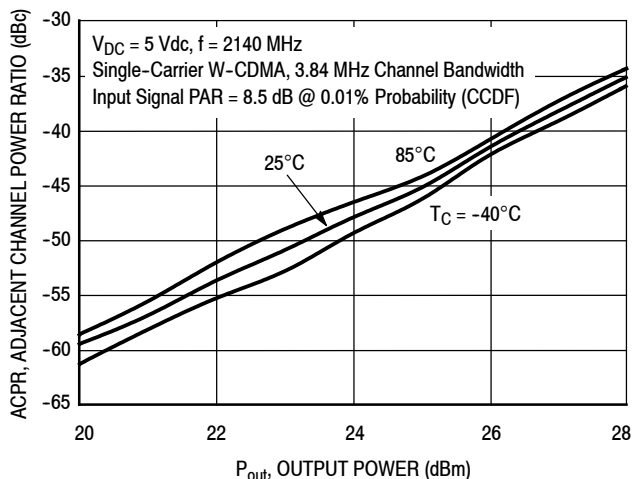


Figure 35. Single-Carrier W-CDMA Adjacent Channel Power Ratio versus Output Power

50 OHM TYPICAL CHARACTERISTICS

Table 12. Common Emitter S-Parameters ($V_{DC} = 5 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, 50 Ohm System)

f MHz	S ₁₁		S ₂₁		S ₁₂		S ₂₂	
	S ₁₁	∠ φ	S ₂₁	∠ φ	S ₁₂	∠ φ	S ₂₂	∠ φ
250	0.821	-173.7	2.816	143.3	0.00597	-61.7	0.922	-179.0
300	0.841	-174.5	2.643	137.3	0.00514	-56.7	0.922	-178.9
350	0.860	-175.2	2.471	132.0	0.00455	-51.6	0.922	-179.1
400	0.872	-175.3	2.309	127.6	0.00435	-44.2	0.921	-180.0
450	0.889	-176.1	2.149	124.2	0.00371	-46.7	0.924	-179.4
500	0.900	-177.0	2.030	120.3	0.00331	-40.6	0.924	-179.6
550	0.909	-177.9	1.908	116.9	0.00306	-35.3	0.925	-179.4
600	0.917	-178.8	1.796	113.8	0.00286	-30.6	0.925	-179.4
650	0.924	-179.6	1.695	110.8	0.00269	-25.9	0.924	-179.6
700	0.930	179.6	1.605	108.2	0.00258	-20.7	0.923	-179.5
750	0.935	178.9	1.522	105.8	0.00248	-15.9	0.922	-179.6
800	0.939	178.2	1.448	103.4	0.00243	-11.1	0.921	-179.8
850	0.943	177.5	1.380	101.3	0.00240	-6.6	0.920	-179.9
900	0.946	176.9	1.320	99.2	0.00239	-2.2	0.919	180.0
950	0.949	176.3	1.266	97.2	0.00239	1.8	0.918	179.9
1000	0.951	175.7	1.216	95.2	0.00242	5.4	0.918	179.6
1050	0.953	175.2	1.172	93.4	0.00246	8.8	0.918	179.5
1100	0.954	174.6	1.133	91.5	0.00250	11.9	0.917	179.3
1150	0.956	174.1	1.098	89.7	0.00255	14.1	0.917	179.0
1200	0.957	173.6	1.067	87.8	0.00261	16.7	0.916	178.8
1250	0.958	173.1	1.039	86.0	0.00268	18.6	0.915	178.6
1300	0.958	172.6	1.015	84.3	0.00275	19.9	0.915	178.3
1350	0.958	172.2	0.994	82.4	0.00282	21.4	0.914	177.9
1400	0.959	171.7	0.978	80.5	0.00292	22.6	0.913	177.6
1450	0.958	171.3	0.964	78.5	0.00299	23.5	0.913	177.3
1500	0.957	170.9	0.952	76.5	0.00306	23.9	0.912	177.1
1550	0.957	170.5	0.945	74.3	0.00316	24.2	0.912	176.7
1600	0.955	170.0	0.941	72.0	0.00324	24.3	0.911	176.5
1650	0.954	169.7	0.941	69.6	0.00332	23.7	0.910	176.2
1700	0.951	169.2	0.944	67.0	0.00340	23.3	0.909	175.8
1750	0.949	168.8	0.951	64.1	0.00348	22.3	0.907	175.5
1800	0.945	168.4	0.969	60.9	0.00360	21.0	0.906	175.2
1850	0.942	168.1	0.975	57.4	0.00361	19.4	0.905	175.0
1900	0.937	167.7	0.985	53.5	0.00364	16.9	0.903	174.6
1950	0.932	167.3	0.999	49.0	0.00363	14.0	0.902	174.4
2000	0.925	166.9	1.016	43.7	0.00357	9.9	0.901	174.1
2050	0.918	166.4	1.034	37.5	0.00346	5.4	0.902	173.8
2100	0.910	166.0	1.048	30.2	0.00322	-0.4	0.903	173.4
2150	0.904	165.6	1.053	21.7	0.00290	-6.9	0.905	173.2
2200	0.900	165.2	1.038	11.9	0.00242	-13.5	0.910	172.9
2250	0.902	164.9	0.995	1.2	0.00178	-19.1	0.916	172.5
2300	0.910	164.4	0.922	-10.0	0.00104	-18.2	0.925	172.2
2350	0.924	164.1	0.823	-20.9	0.000474	24.3	0.933	171.9

(continued)

50 OHM TYPICAL CHARACTERISTICS

Table 12. Common Emitter S-Parameters ($V_{DC} = 5 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, 50 Ohm System) (continued)

f MHz	S ₁₁		S ₂₁		S ₁₂		S ₂₂	
	S ₁₁	∠ φ	S ₂₁	∠ φ	S ₁₂	∠ φ	S ₂₂	∠ φ
2400	0.938	163.7	0.711	-30.9	0.000864	82.0	0.938	171.7
2450	0.952	163.3	0.600	-39.7	0.00152	86.3	0.943	171.4
2500	0.963	162.9	0.498	-47.0	0.00207	84.0	0.945	171.1
2550	0.970	162.5	0.408	-53.1	0.00253	80.0	0.946	170.8
2600	0.976	162.1	0.332	-58.0	0.00287	76.4	0.947	170.4
2650	0.981	161.6	0.268	-61.9	0.00316	73.4	0.945	169.0
2700	0.983	161.2	0.215	-64.8	0.00340	71.2	0.944	168.3
2750	0.986	160.8	0.170	-66.7	0.00361	69.2	0.943	167.4
2800	0.988	160.5	0.132	-67.6	0.00382	67.5	0.941	166.5
2850	0.988	160.0	0.101	-66.9	0.00402	66.1	0.940	165.9
2900	0.989	159.6	0.075	-64.1	0.00418	64.8	0.939	165.1
2950	0.990	159.2	0.053	-57.4	0.00438	63.4	0.938	164.5
3000	0.990	158.8	0.037	-43.3	0.00455	62.3	0.937	163.9

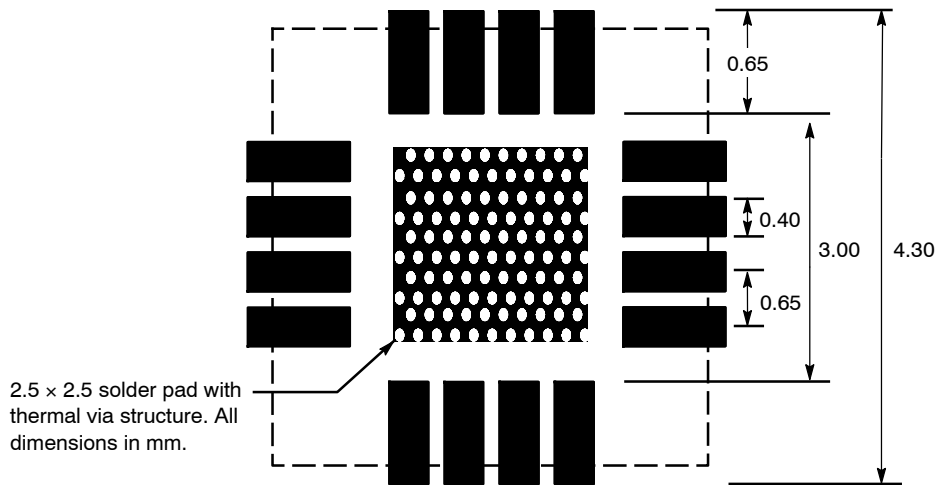


Figure 36. PCB Pad Layout for 16-Lead QFN 4 x 4

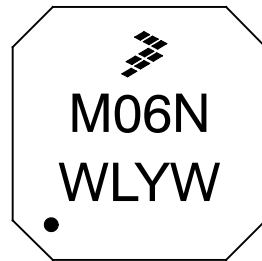
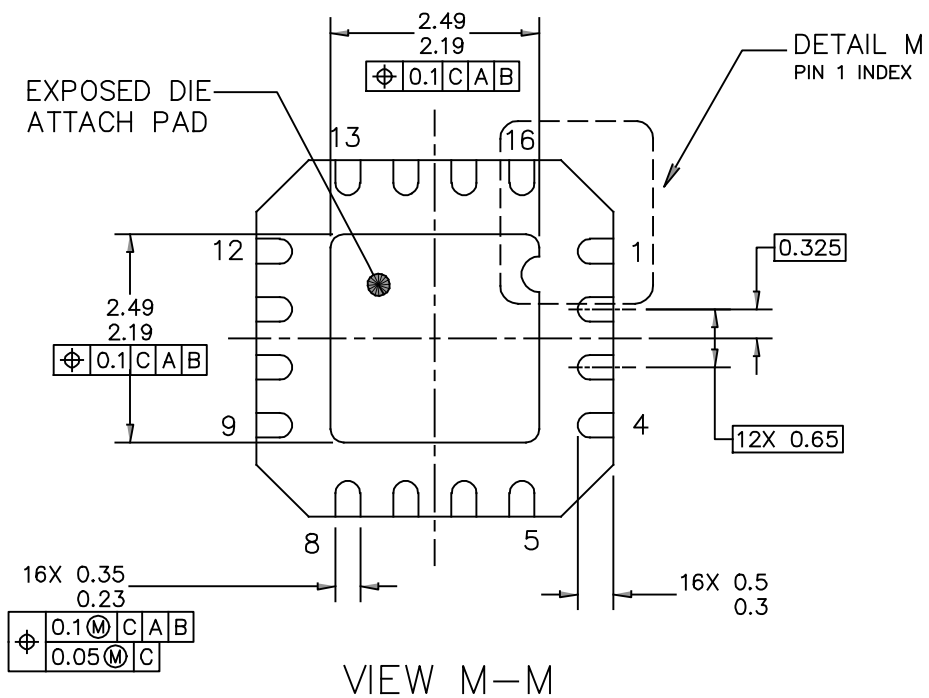
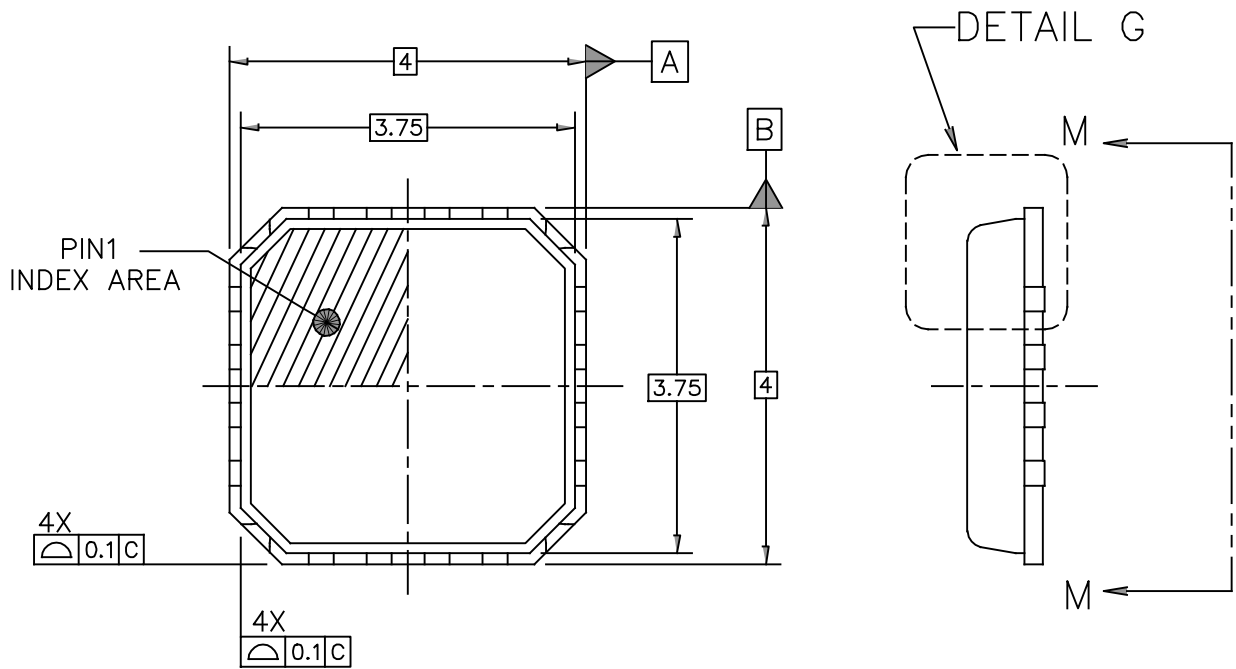


Figure 37. Product Marking

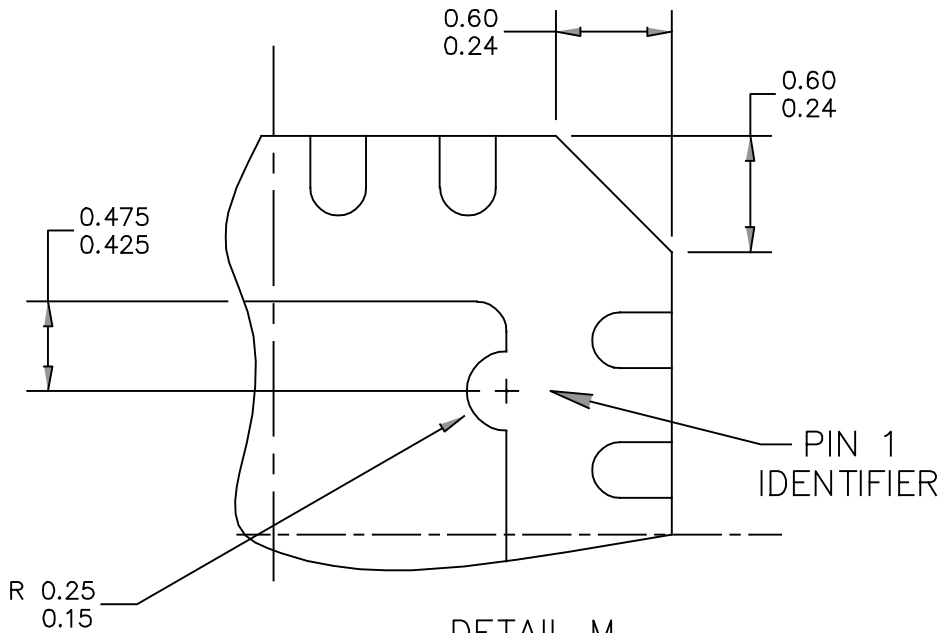
PACKAGE DIMENSIONS



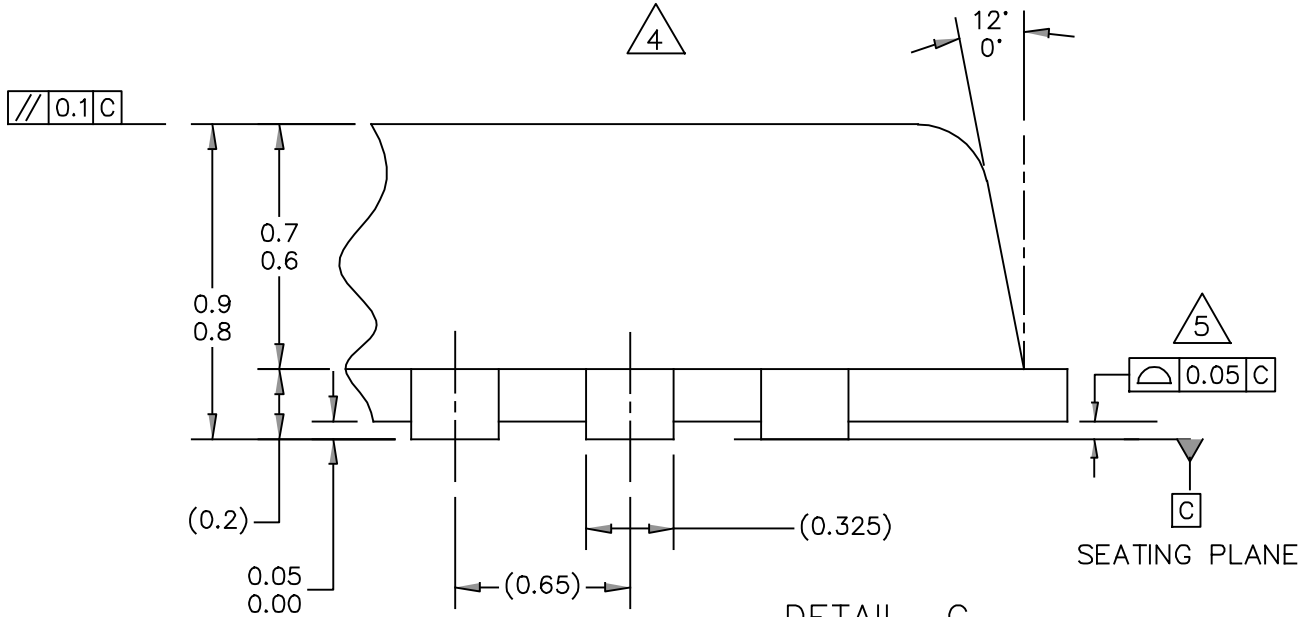
VIEW M-M

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TITLE: THERMALLY ENHANCED QUAD FLAT NON-LEADED PACKAGE (QFN) 16 TERMINAL, 0.65 PITCH (4 X 4 X 0.9)	DOCUMENT NO: 98ASA10761D	REV: C
	STANDARD: NON-JEDEC	
	SOT1592-1	14 MAR 2016

MMG3006NT1



DETAIL M
PIN 1 BACKSIDE IDENTIFIER



DETAIL G
VIEW ROTATED 90° CW

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	STANDARD: NON-JEDEC	
	SOT1592-1	14 MAR 2016

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
3. THE COMPLETE JEDEC DESIGNATOR FOR THIS PACKAGE IS: HF-PQFN.
4. DIMENSIONS OF OPTIONAL FEATURES ARE FOR REFERENCE ONLY.
5. COPLANARITY APPLIES TO LEADS, CORNER LEADS, AND DIE ATTACH PAD.
6. MIN METAL GAP SHOULD BE 0.25MM.

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		STANDARD: NON-JEDEC	
		SOT1592-1	14 MAR 2016

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
- AN3100: General Purpose Amplifier Biasing
- AN3778: PCB Layout Guidelines for PQFN/QFN Style Packages Requiring Thermal Vias for Heat Dissipation

Software

- .s2p File

Development Tools

- Printed Circuit Boards

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

FAILURE ANALYSIS

At this time, because of the physical characteristics of the part, failure analysis is limited to electrical signature analysis. In cases where NXP is contractually obligated to perform failure analysis (FA) services, full FA may be performed by third party vendors with moderate success. For updates contact your local NXP Sales Office.

REVISION HISTORY

The following table summarizes revisions to this document.

Revision	Date	Description
0	Jan. 2008	<ul style="list-style-type: none">• Initial Release of Data Sheet
1	Mar. 2008	<ul style="list-style-type: none">• Corrected Table 7, Moisture Sensitivity Level Rating from 3 to 1, p. 3• Corrected S-Parameter table frequency column label to read "MHz" versus "GHz", pp. 17, 18
2	Mar. 2008	<ul style="list-style-type: none">• Corrected Tape and Reel information from 330 mm to 12 mm, p. 1• Corrected Figs. 24, 35, Single-Carrier W-CDMA Adjacent Channel Power Ratio versus Output Power y-axis (ACPR) unit of measure to dBc, pp. 12, 16
3	May 2010	<ul style="list-style-type: none">• Added new Fig. 3, Third Order Output Intercept Point versus Output Power and Supply Current, p. 4• Added AN3778, PCB Layout Guidelines for PQFN/QFN Style Packages Requiring Thermal Vias for Heat Dissipation, Application Notes, p. 23• Added .s2p File availability to Product Software, p. 23
4	Jan. 2011	<ul style="list-style-type: none">• Corrected temperature at which Theta_{JC} is measured from 25°C to 89°C and added "no RF applied" to Thermal Characteristics table to indicate that thermal characterization is performed under DC test with no RF signal applied, p. 1• Removed I_{DC} bias callout from Table 10, Common Source S-Parameters heading as bias is not a controlled value, pp. 17-18• Added Printed Circuit Boards availability to Development Tools, p. 23
5	Sept. 2014	<ul style="list-style-type: none">• Table 2, Maximum Ratings: updated Junction Temperature from 150°C to 175°C to reflect recent test results of the device, p. 1• Table 6, ESD Protection Characteristics, removed the word "Minimum" after the ESD class rating. ESD ratings are characterized during new product development but are not 100% tested during production. ESD ratings provided in the data sheet are intended to be used as a guideline when handling ESD sensitive devices, p. 2• Removed Fig. 2, Collector Current versus Bias Voltage at Pin #1, p. 3• Added Fig. 38, Product Marking, p. 18• Added Failure Analysis information, p. 22

(continued)

REVISION HISTORY (cont.)

Revision	Date	Description
6	Dec. 2017	• Fig. 37, Product Marking: updated to show location of Pin 1 on Product Marking and updated date code line to reflect improved traceability information, p. 18

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