

APPLICATION NOTE



Date : 8th Dec. 2005

SUBJECT:

RF characteristics data of MGF0906B for Freq.=2.11-2.17GHz band

SUMMARY: This application note show the RF characteristics data of MGF0906B

- Sample history:
MGF0906B : Lot number "48B"
- Evaluate conditions(In "○"part shown as follows, there is an evaluation result.)

CW(1tone)		IDQ		Tc=25deg.C Freq.=2.14GHz
		1.2	0.96	
VD	10	○	○	
	9	○	-	

Tc	CW	ACLR	Vd=10V, IDQ=1.2A Freq.=2.14GHz
-20	○	○	
+25	○	○	
+80	○	○	

ACLR		IDQ		Tc=25deg.C Freq.=2.14GHz
		1.2	0.96	
VD	10	○	○	
	9	○	-	

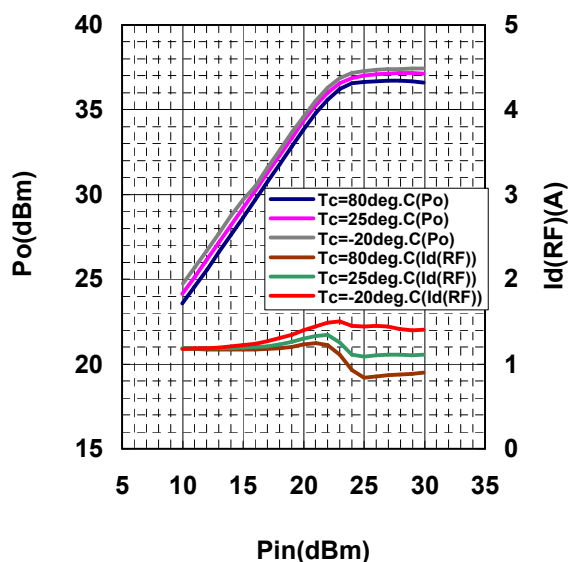
IMD		IDQ		Tc=25deg.C Freq.=2.17GHz
		1.2	0.96	
VD	10	○	-	
	9	-	-	

- Results
Page2-3 shows the RF characteristics data.
Page 4 shows the Equivalent Circuit.

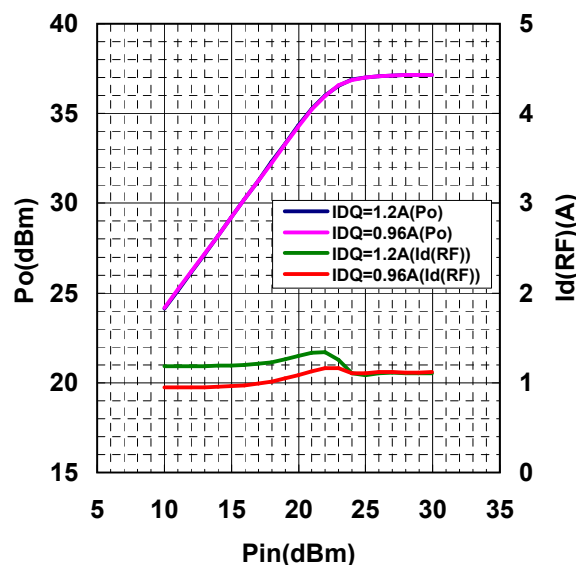
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MGF0906B RF TEST DATA for Freq.=2.11-2.17GHz BAND

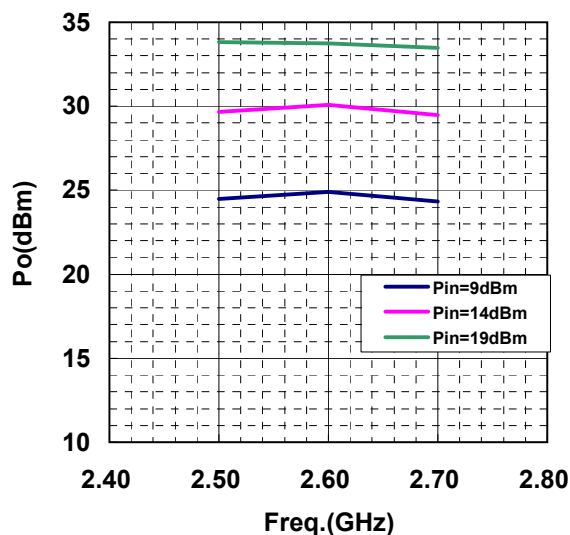
**Po,Id(RF) v.s. Pin Freq.=2.14GHz CW
(1tone) VD=10V, IDQ=1.2A**



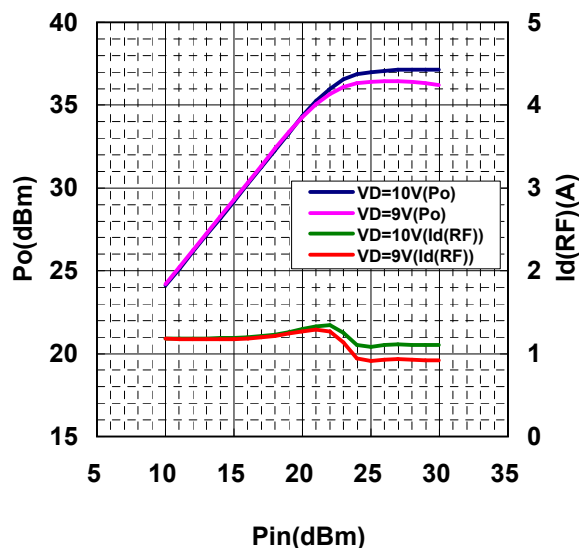
**Po,Id(RF) v.s. Pin Freq.=2.14GHz CW
(1tone) VD=10V, Tc=25deg.C**



**Po v.s. Freq. CW (1tone)
VD=10V, IDQ=1.2A, Tc=25deg.C**



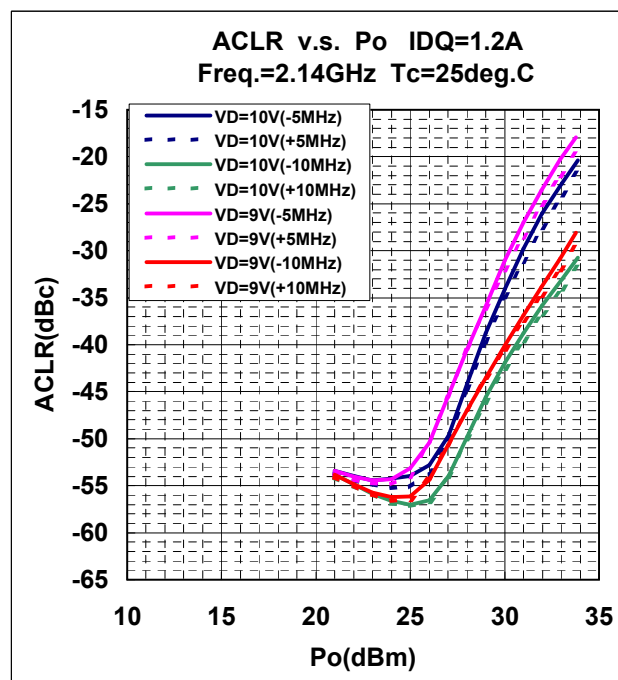
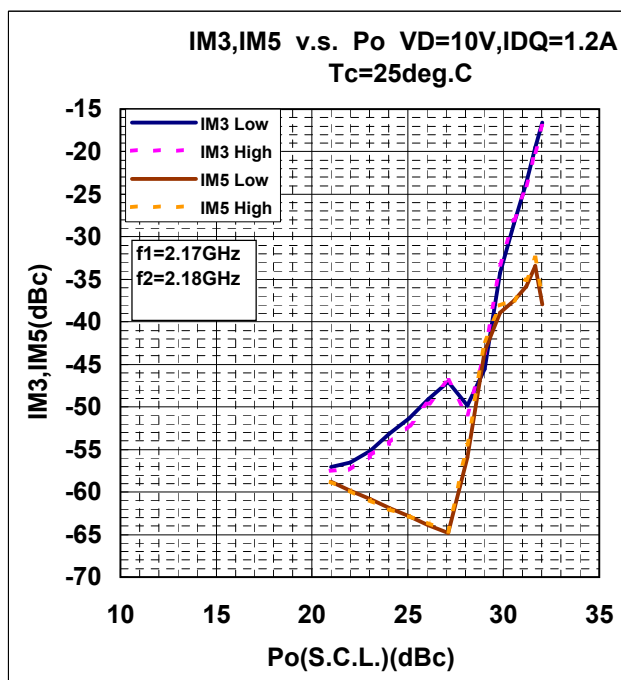
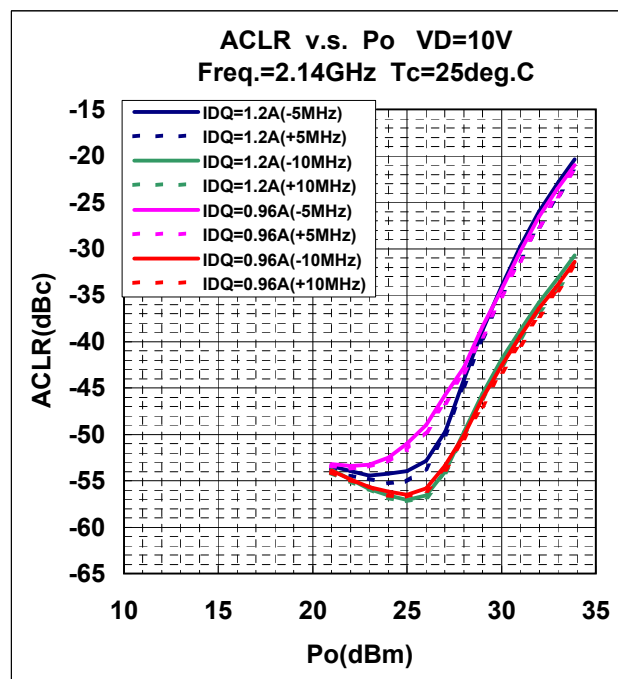
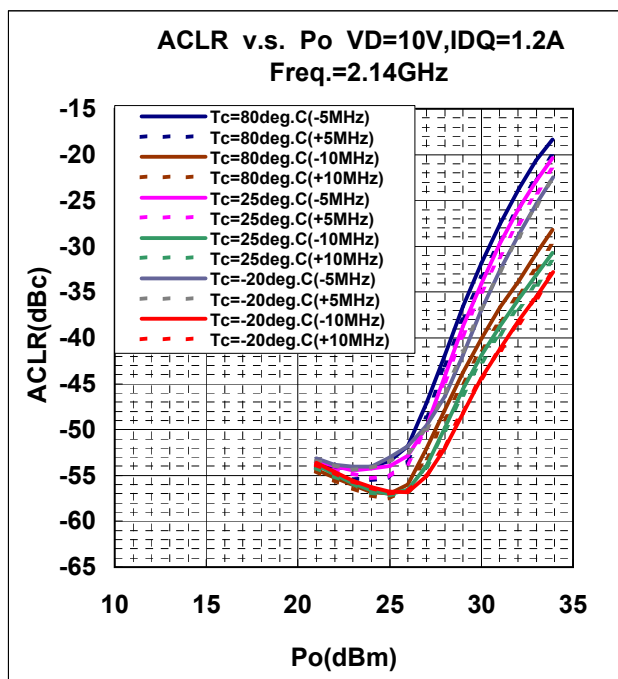
**Po,Id(RF) v.s. Pin Freq.=2.14GHz CW
(1tone) IDQ=1.2A, Tc=25deg.C**



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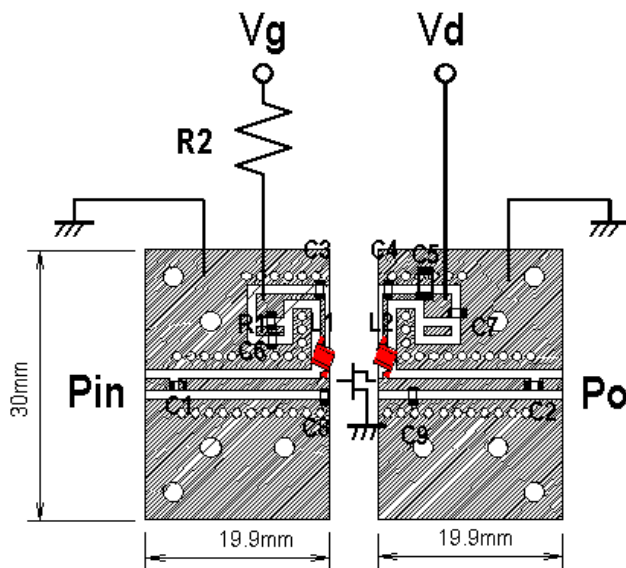
MGF0906B RF TEST DATA for Freq.=2.11-2.17GHz BAND

ACLR v.s. Po(W-CDMA) ; 3GPP TEST MODEL1 64ch's 2carrier Signal



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MGF0906B TEST FIXTURE $f=2.11\text{-}2.17\text{GHz}$



$C_1, C_2 = 20\text{pF}$
 $C_3, C_4 = 100\text{pF}$
 $C_5 = 4.7\mu\text{F}$
 $C_6, C_7 = 1000\text{pF}$
 $C_8 = 2.8\text{pF}$
 $C_9 = 2\text{pF}$
 $L_1, L_2 = 71\text{nH}$
 $R_1 = 51\text{ohm}$
 $R_2 = 100\text{ohm}$

Board material: FR4 Thickness=0.8(mm)
Specific dielectric constant=4.4