

APPLICATION NOTE



Date : 8th Dec. 2005

SUBJECT:

RF characteristics data of MGF0907B for Freq.=2.11-2.17GHz band

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

- Sample history:
MGF0907B : Lot number "2YBA"
- Evaluate conditions(In "○"part shown as follows, there is an evaluation result.)

CW(1tone)		IDQ		Tc=25deg.C Freq.=2.14GHz
		2.4	1.92	
VD	10	○	○	
	9	○	-	

Tc	CW	ACLR	Vd=10V, IDQ=2.4A Freq.=2.14GHz
-20	○	○	
+25	○	○	
+80	○	○	

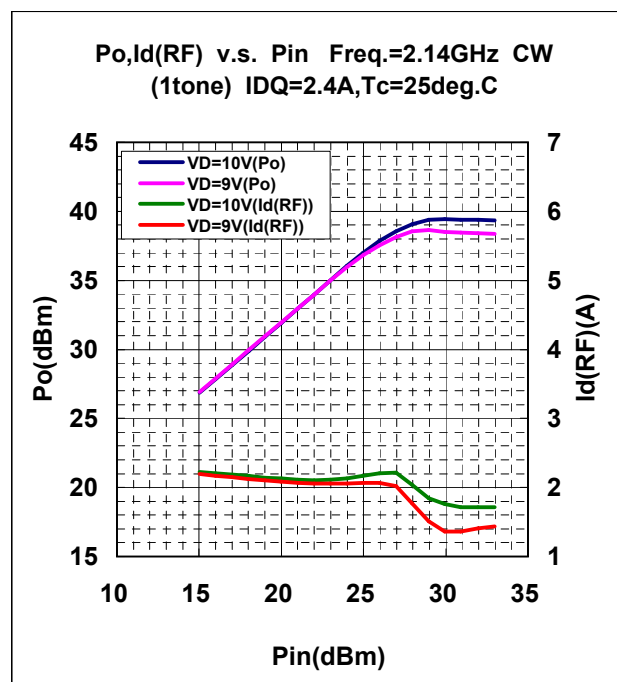
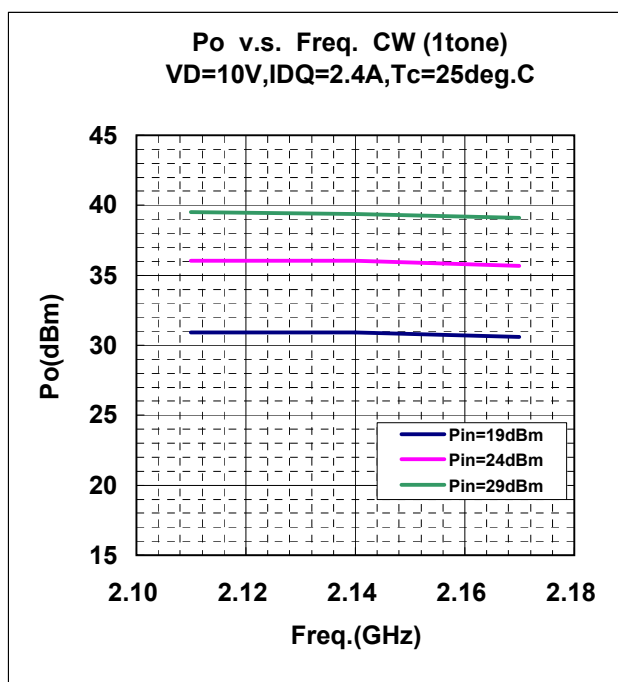
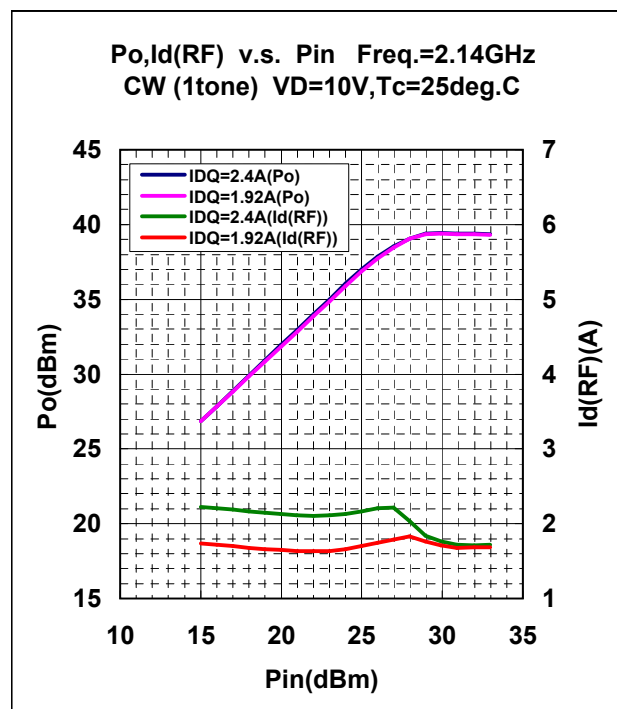
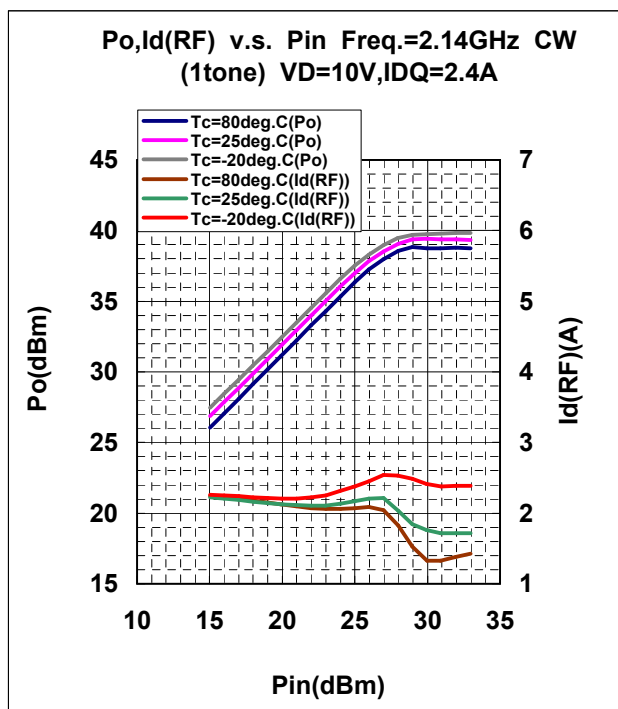
ACLR		IDQ		Tc=25deg.C Freq.=2.14GHz
		2.4	1.92	
VD	10	○	○	
	9	○	-	

IMD		IDQ		Tc=25deg.C Freq.=2.14GHz
		2.4	1.92	
VD	10	○	-	
	9	-	-	

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

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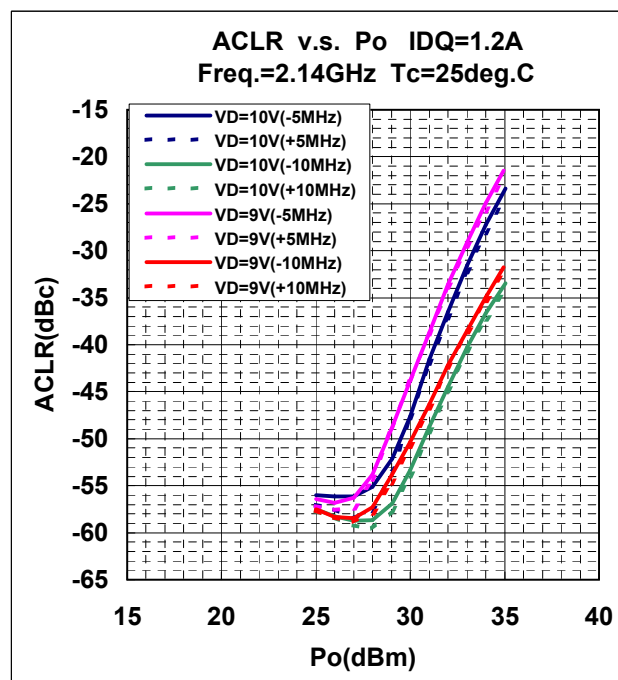
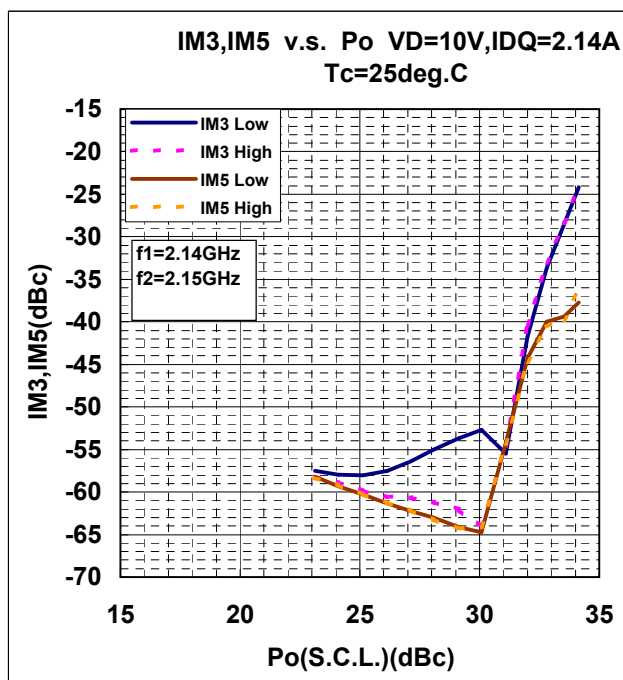
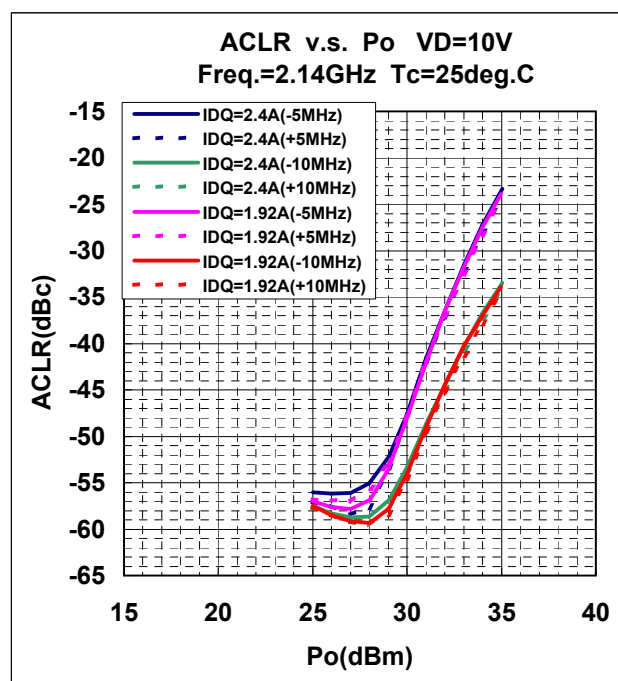
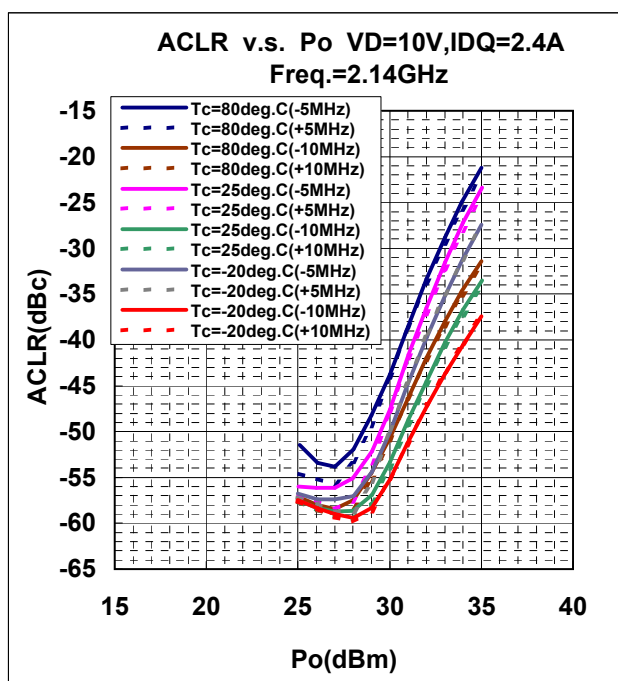
MGF0907B RF TEST DATA for Freq.=2.11-2.17GHz BAND



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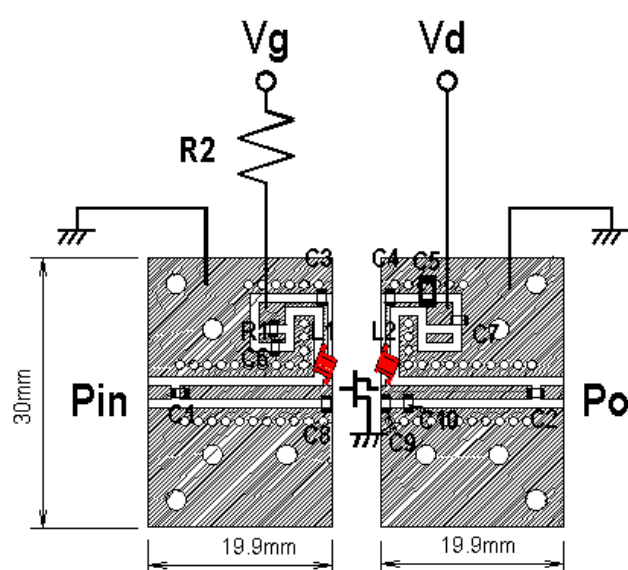
MGF0907B RF TEST DATA for Freq.=2.11-2.17GHz BAND

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



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MGF0907B TEST FIXTURE $f=2.11\text{-}2.17\text{GHz}$



C1,C2=20pF
C3,C4=100pF
C5=4.7uF
C6,C7=1000pF
C8=3pF
C9=0.5pF
C10=2pF
L1,L2= 71nH
R1=51ohm
R2=50ohm

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