

APPLICATION NOTE

Date : 25th May. 2005

SUBJECT:

RF characteristics data of MGF0921A for Freq.=2.11-2.17GHz band

SUMMARY: This application note show the RF characteristics data of MGF0921A

- Sample history:
MGF0921A : Lot number "47B"
- Evaluate conditions(In "○"part shown as follows, there is an evaluation result.)

CW(1tone)		IDQ		Tc=25deg.C Freq.=2.14GHz
		0.5	0.4	
VD	10	○	○	
	9	○	-	

Tc	CW	ACLR	Vd=10V, IDQ=0.5A Freq.=2.14GHz
-20	○	○	
+25	○	○	
+80	○	○	

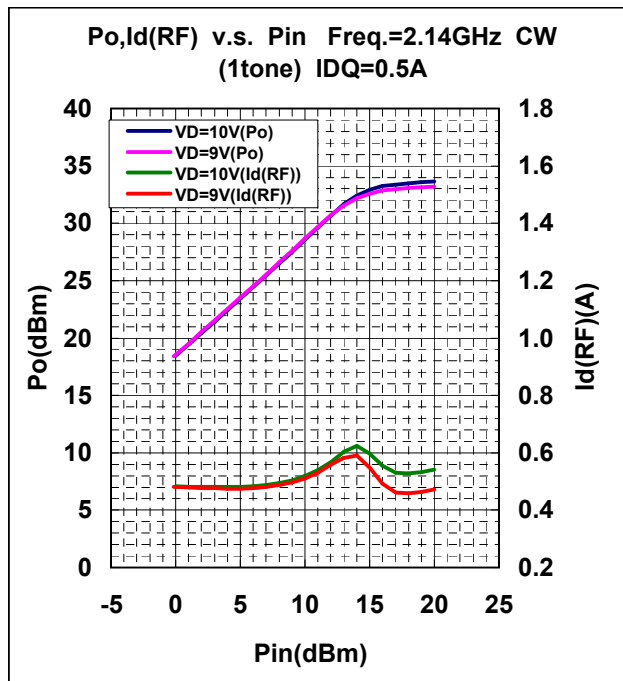
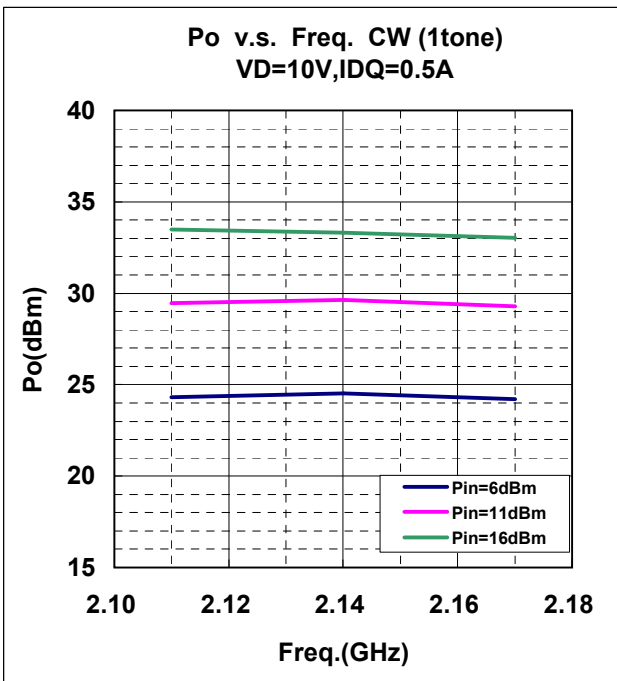
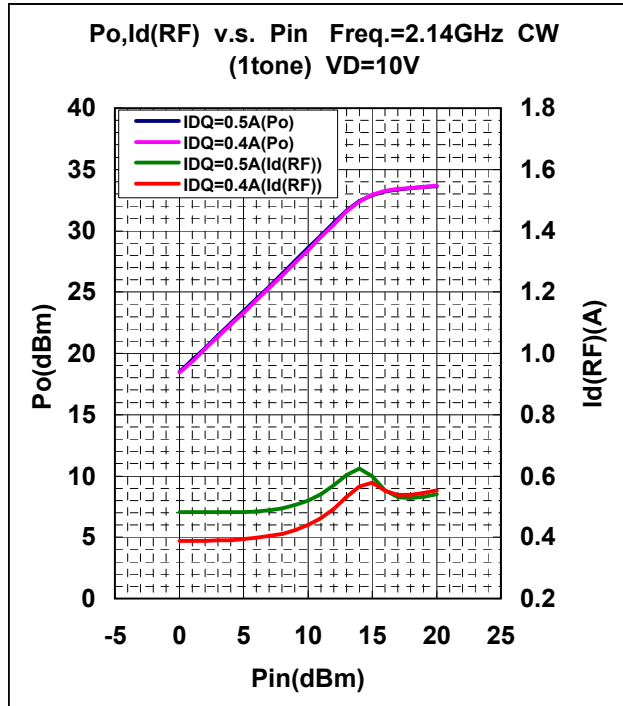
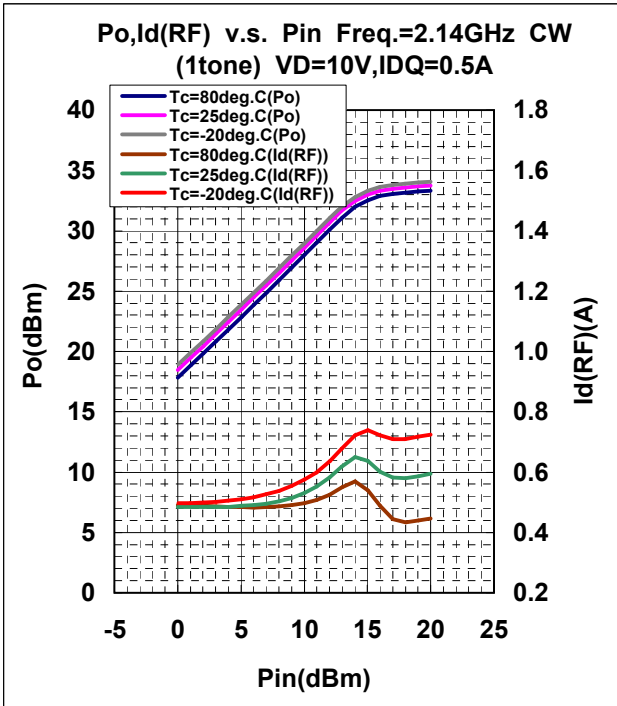
ACLR		IDQ		Tc=25deg.C Freq.=2.14GHz
		0.5	0.4	
VD	10	○	○	
	9	○	-	

IMD		IDQ		Tc=25deg.C Freq.=2.14GHz
		0.5	0.4	
VD	10	○	-	
	9	-	-	

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

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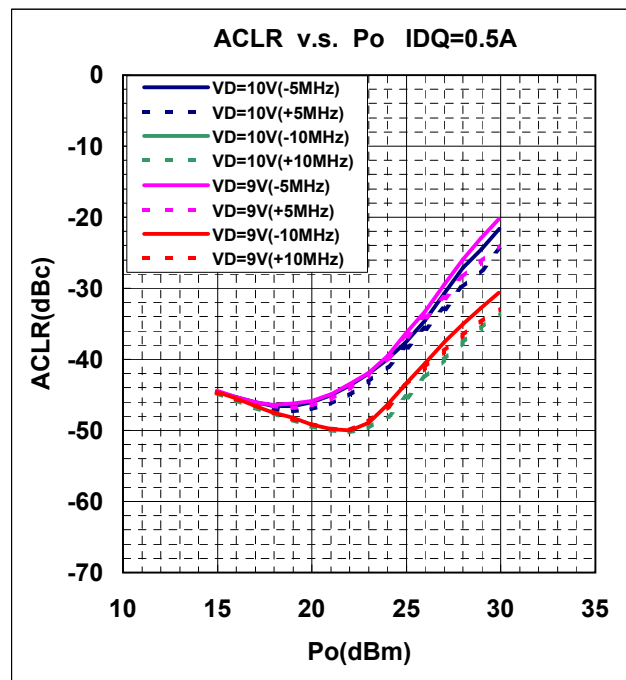
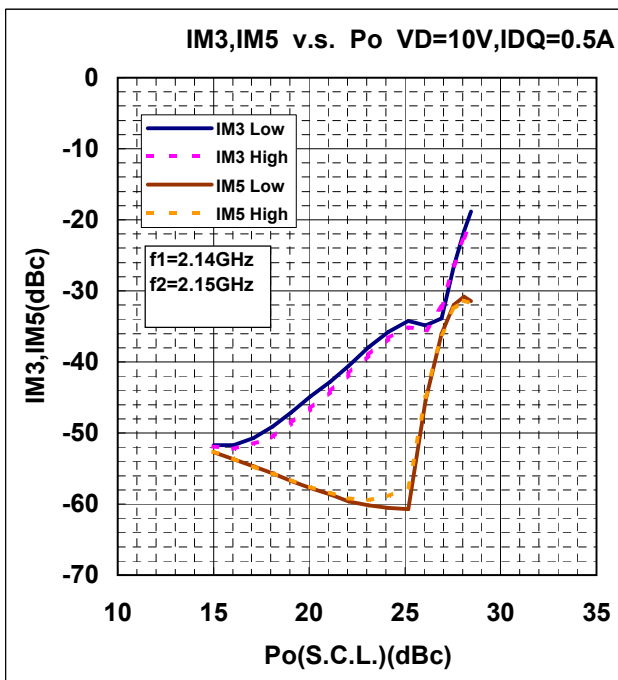
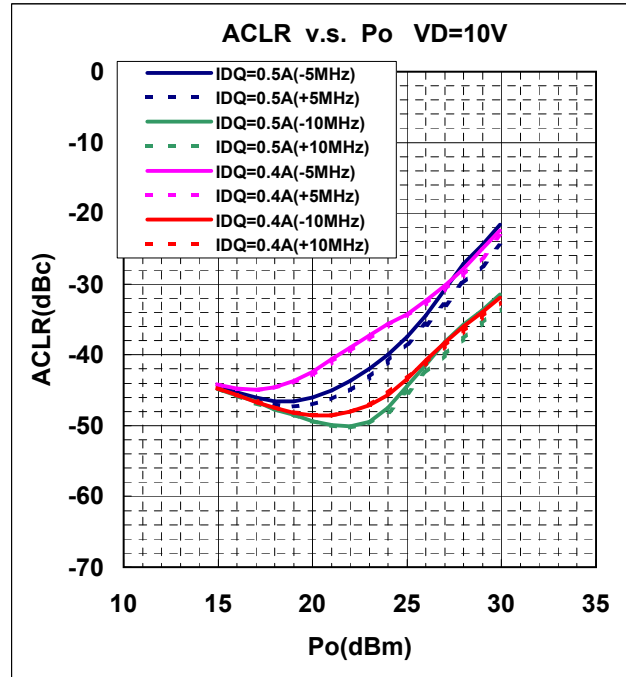
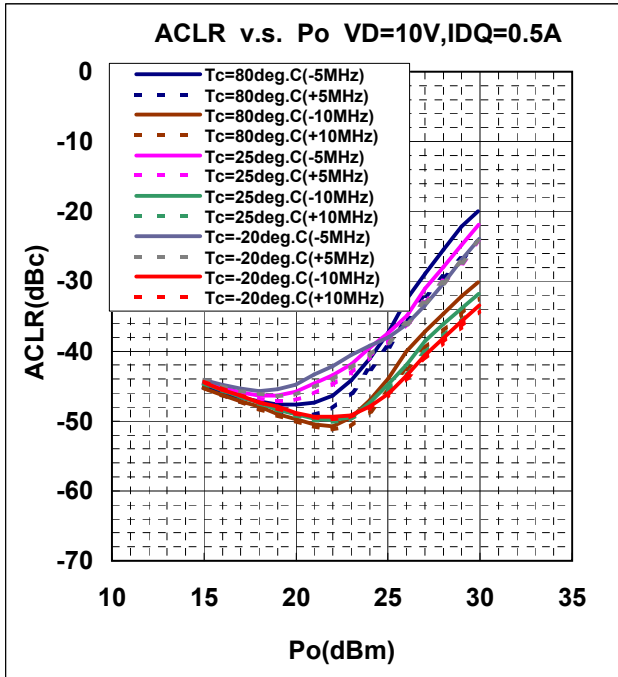
MGF0921A RF TEST DATA for Freq.=2.11-2.17GHz BAND



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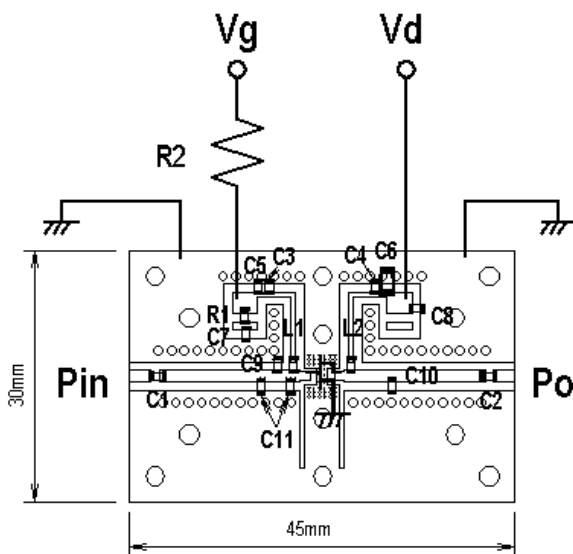
MGF0921A RF TEST DATA for Freq.=2.11-2.17GHz BAND

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



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MGF0921A TEST FIXTURE $f=2.11-2.17\text{GHz}$



C1, C2, C3, C4=20pF
C5, C7, C8=1000pF
C9, C10, C11=2pF
C6=4.7uF
L1, L2=12nH
R1=51ohm
R2=200ohm

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