

APPLICATION NOTE



Date : 24th Mar. 2005

SUBJECT:

RF characteristics data of MGF0921A for Freq.=2.5-2.7GHz band

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

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

CW(1tone)		IDQ		Tc=25deg.C Freq.=2.6GHz
		0.5	0.4	
VD	10	○	○	
	9	○	-	

Tc	CW	ACLR	Vd=10V, IDQ=0.5A Freq.=2.6GHz
-20	○	○	
+25	○	○	
+80	○	○	

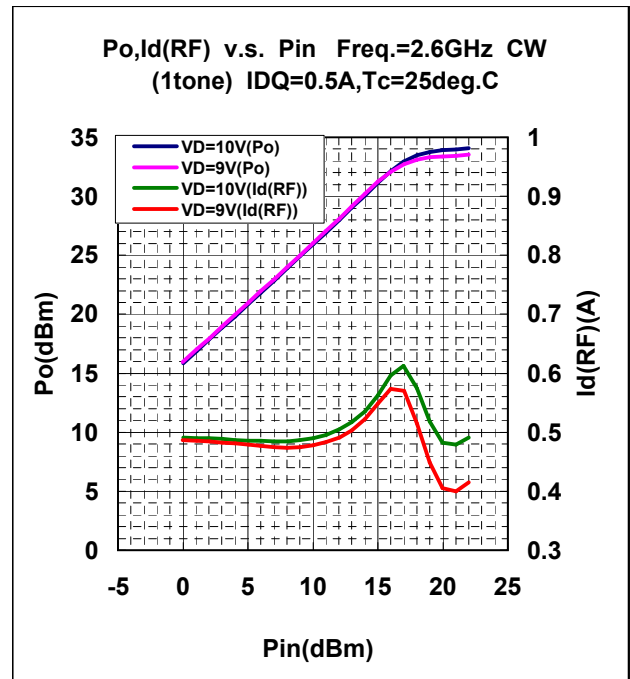
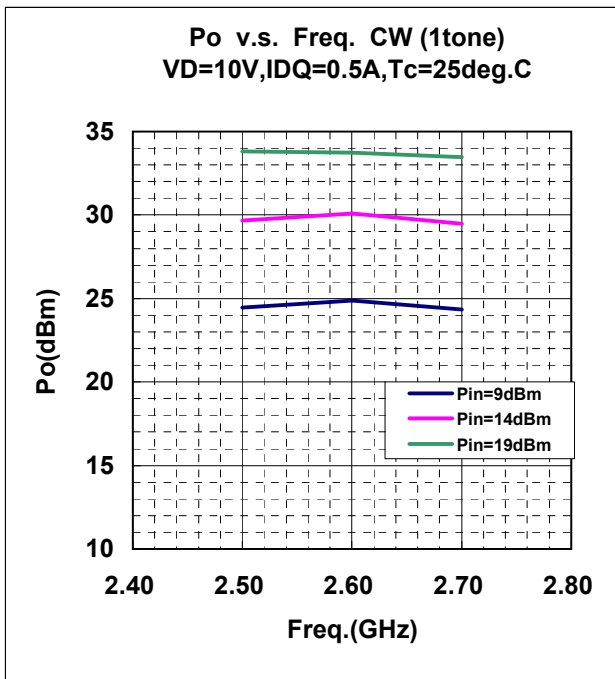
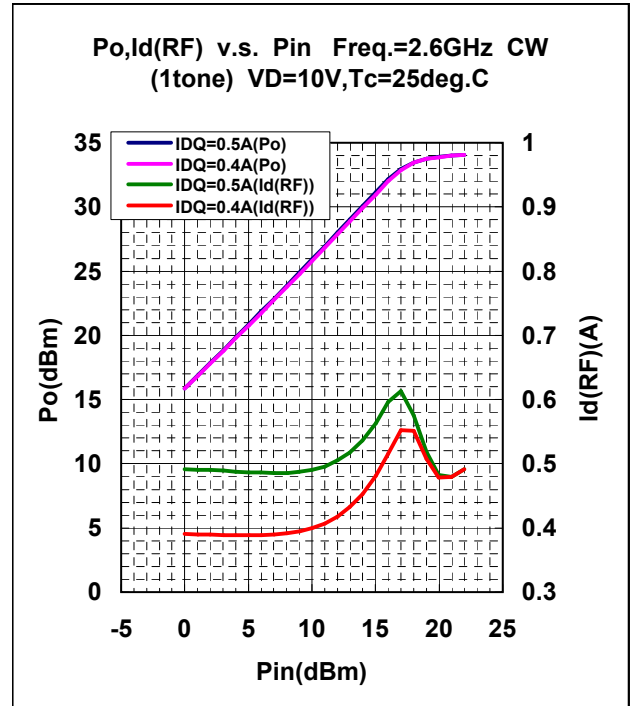
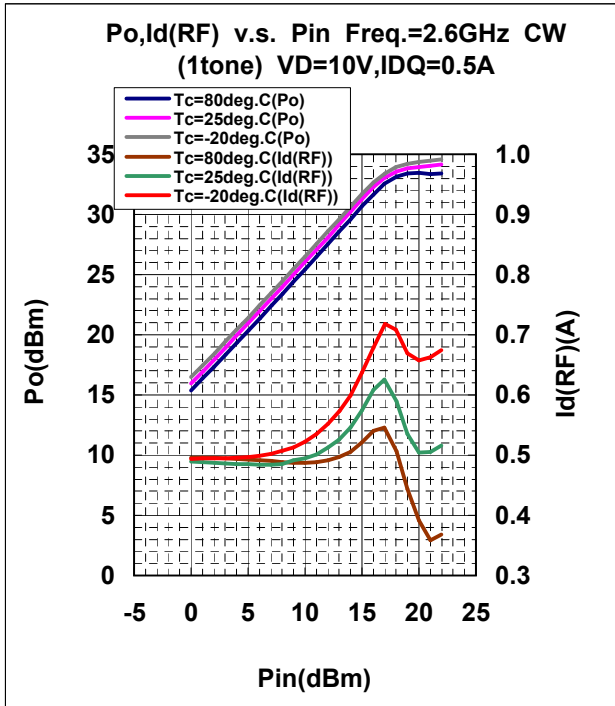
ACLR		IDQ		Tc=25deg.C Freq.=2.6GHz
		0.5	0.4	
VD	10	○	○	
	9	○	-	

IMD		IDQ		Tc=25deg.C Freq.=2.6GHz
		0.5	0.4	
VD	10	○	-	
	9	-	-	

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

Mar. 2005

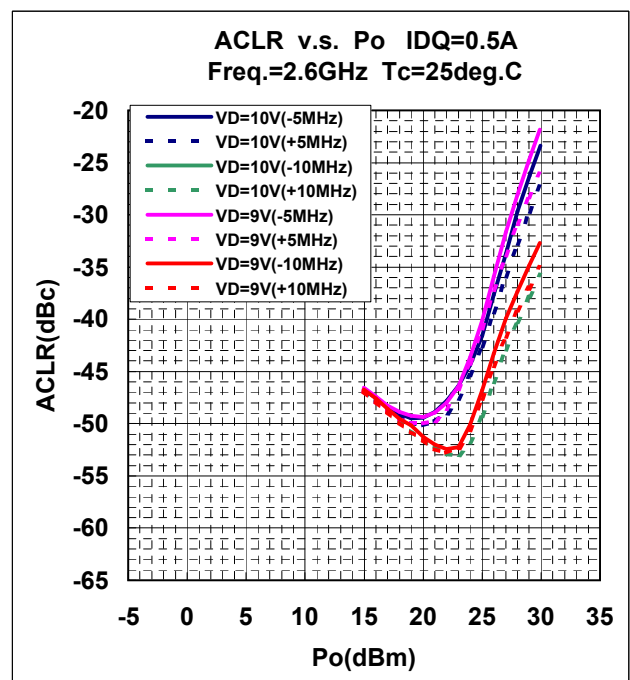
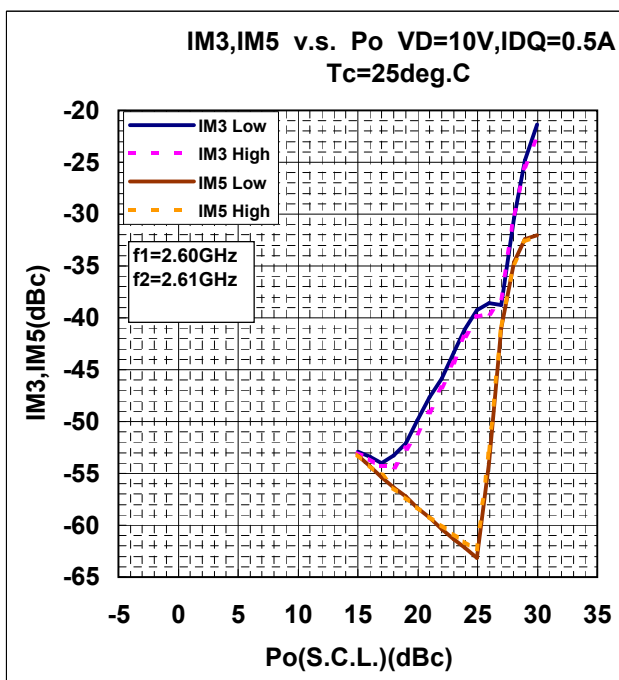
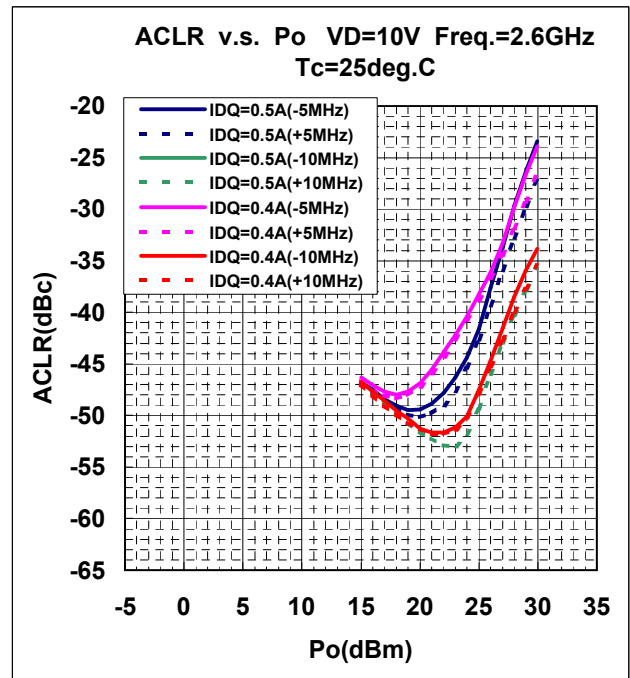
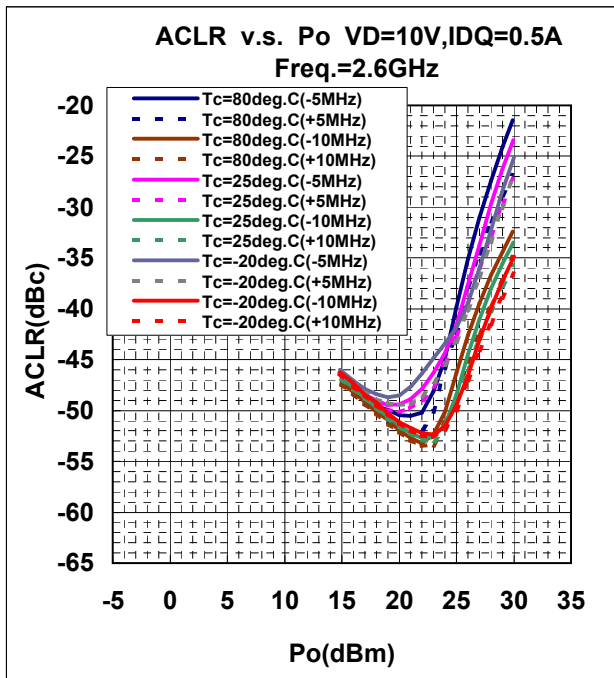
MGF0921A RF TEST DATA for Freq.=2.5-2.7GHz BAND



Mar. 2005

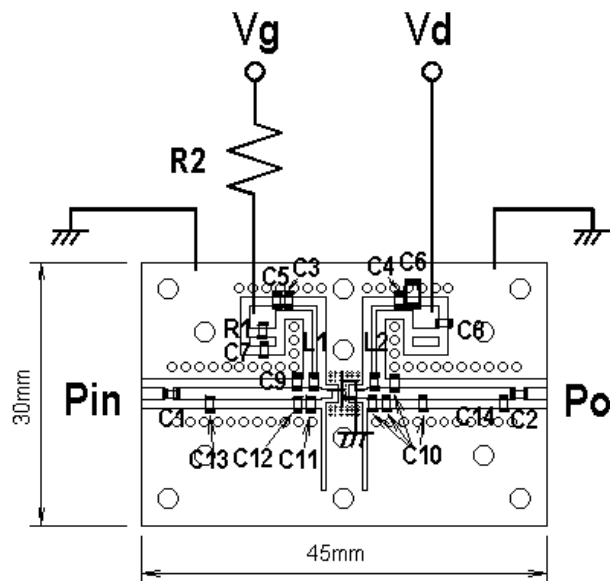
MGF0921A RF TEST DATA for Freq.=2.5-2.7GHz BAND

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



Mar. 2005

MGF0921A TEST FIXTURE $f=2.5-2.7\text{GHz}$



C1,C2,C3,C4=20pF
C5,C7,C8=1000pF
C9,C13,C14=0.5pF
C10,C11=1pF
C12=2pF
C6=4.7uF
L1,L2=12nH
R1=51ohm
R2=200ohm

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

