

APPLICATION NOTE

Date : 5th Apr. 2005

SUBJECT:

RF characteristics data of MGF0915A for Freq.=1.85-1.95GHz band

SUMMARY: This application note show the RF characteristics data of MGF0915.A

- Sample history:
MGF0915A : Lot number "46G"
- Evaluate conditions(In "○"part shown as follows, there is an evaluation result.)

CW(1tone)		IDQ		Tc=25deg.C Freq.=1.9GHz
		0.8	0.64	
VD				
	10	○	○	
	9	○	-	

Tc	CW	ACLR	Vd=10V, IDQ=0.8A Freq.=1.9GHz
-20	○	○	
+25	○	○	
+80	○	○	

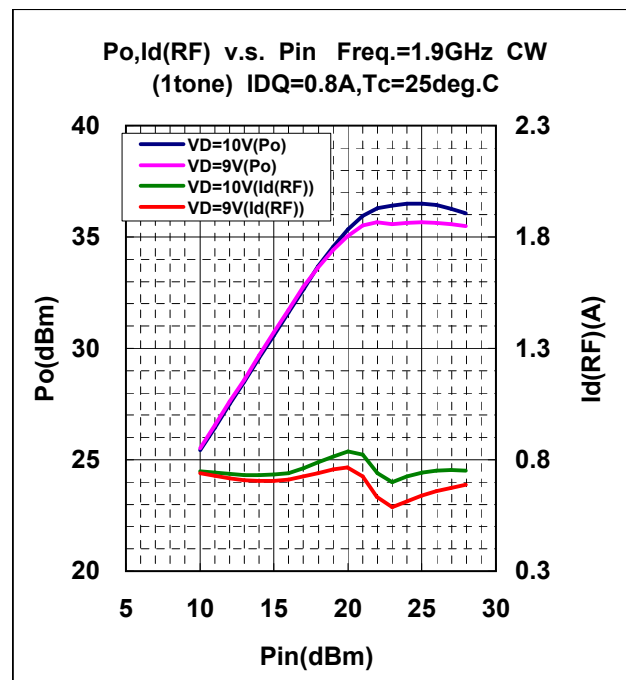
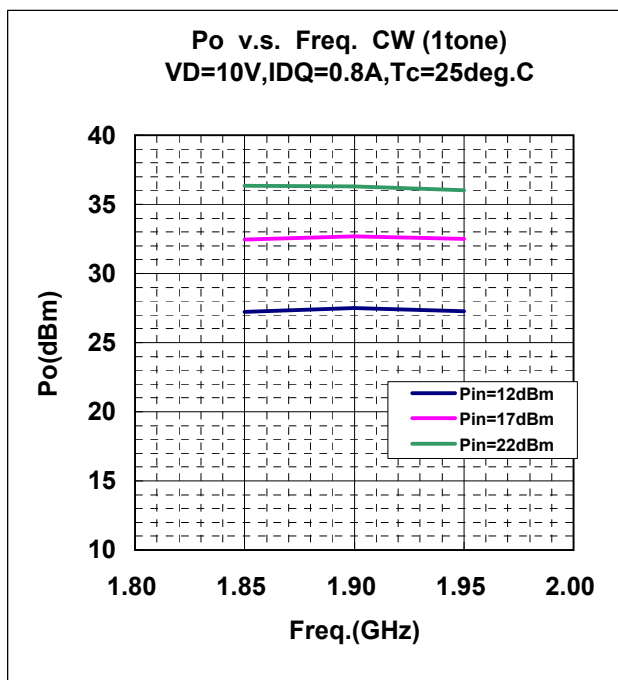
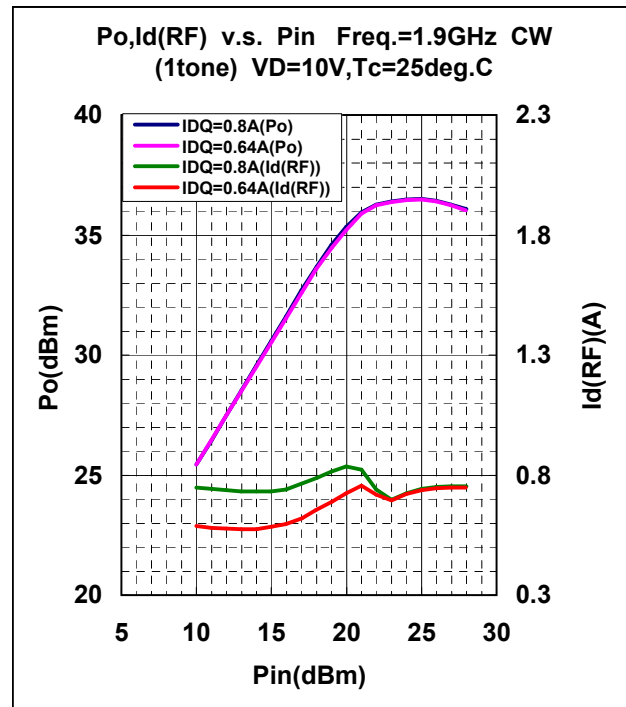
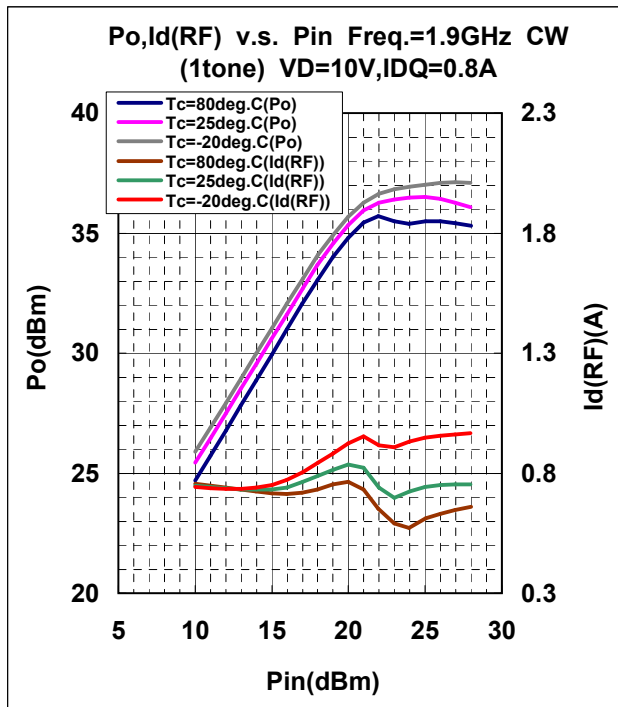
ACLR		IDQ		Tc=25deg.C Freq.=1.9GHz
		0.8	0.64	
VD				
	10	○	○	
	9	○	-	

IMD		IDQ		Tc=25deg.C Freq.=1.9GHz
		0.8	0.64	
VD				
	10	○	-	
	9	-	-	

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

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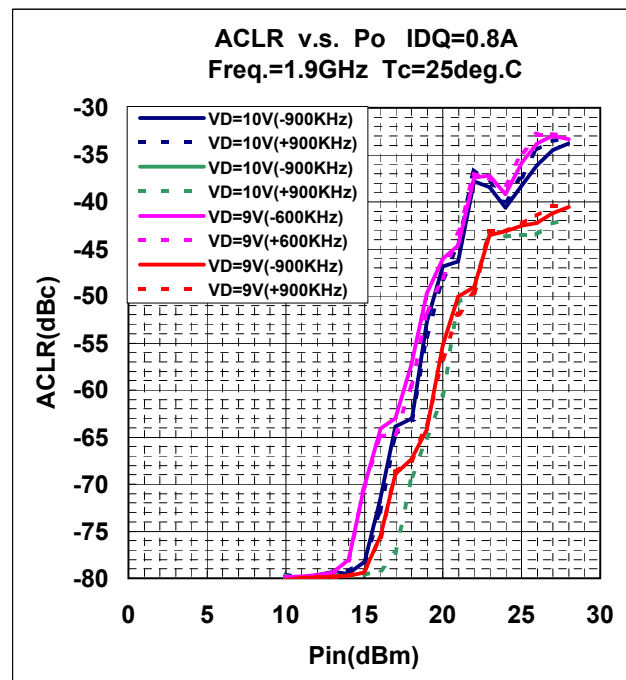
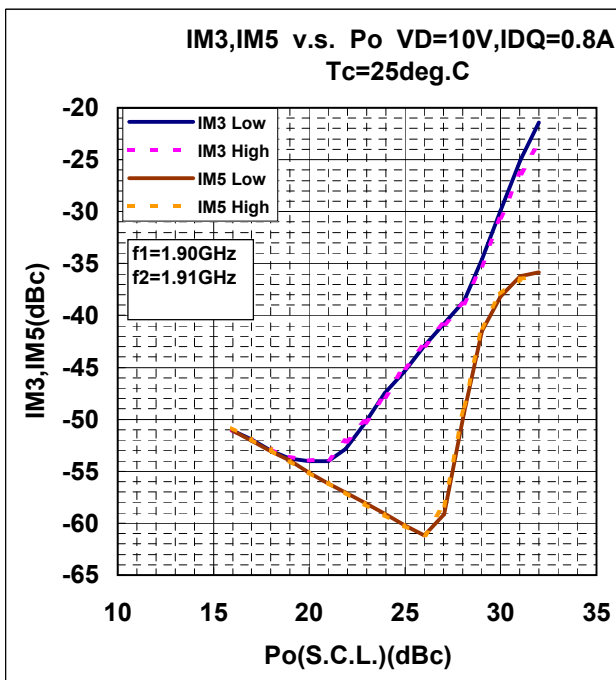
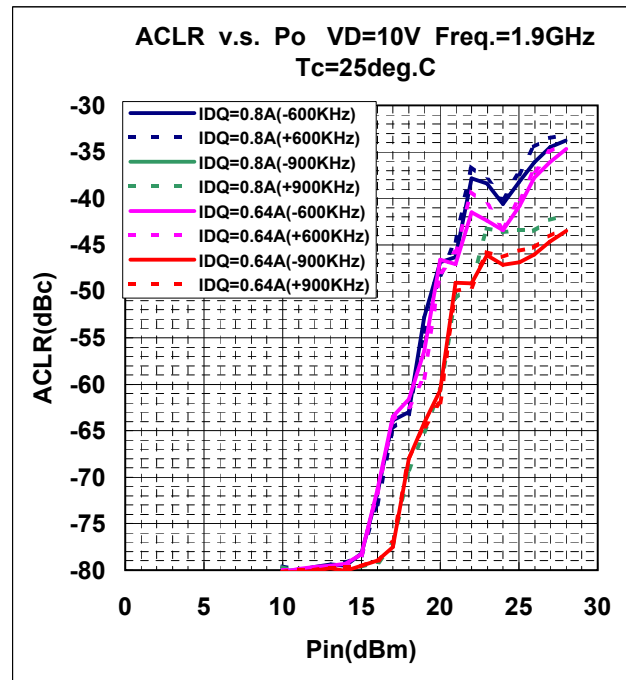
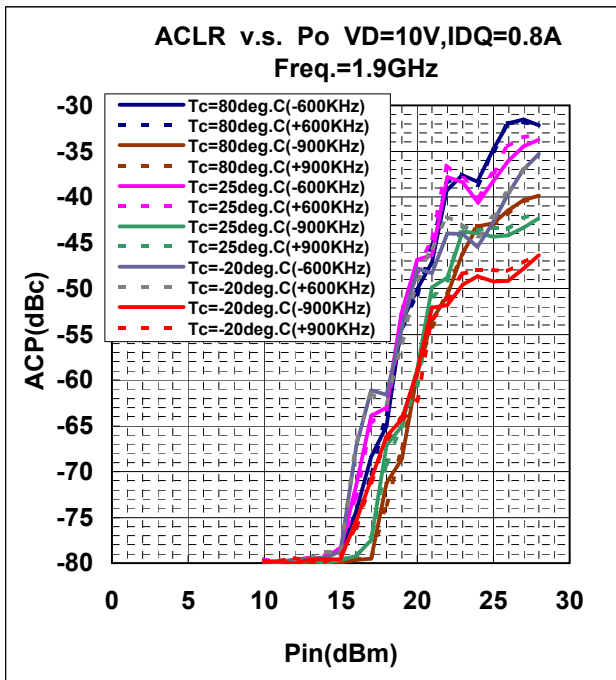
MGF0915A RF TEST DATA for Freq.=1.85-1.95GHz BAND



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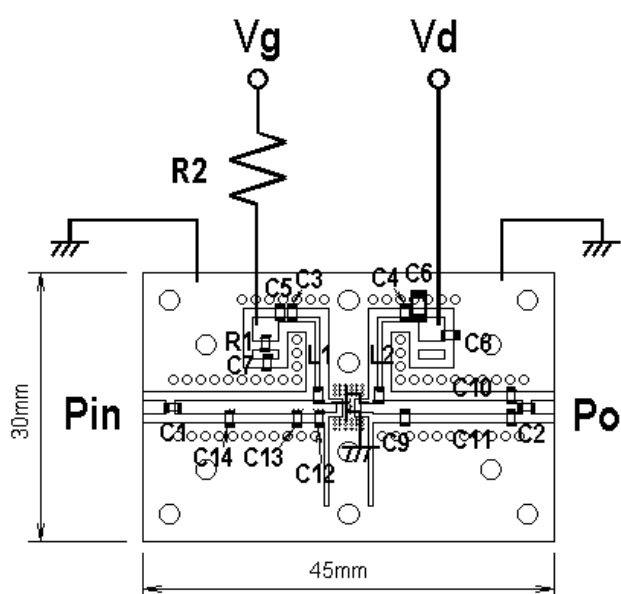
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ACP v.s. Po(PHS) ; $\pi/4$ DQPSK 1carrier Signal



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MGF0915A TEST FIXTURE $f=1.9\text{GHz}$



C1,C2,C3,C4=20pF
C5,C7,C8=1000pF
C12=2pF
C10,C11,C14=0.5pF
C6=4.7uF
C9,C13=3pF
L1,L2=12nH
R1=51ohm
R2=100ohm

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