

APPLICATION NOTE

Date : 25th May. 2005

SUBJECT:

RF characteristics data of MGF0915A for Freq.=2.3-2.4GHz band

SUMMARY: This application note show the RF characteristics data of MGF0915A

- Sample history:
MGF0915A : Lot number "3XAF"
- Evaluate conditions(In "○"part shown as follows, there is an evaluation result.)

| CW(1tone) | | IDQ | | Tc=25deg.C Freq.=2.35GHz |
|-----------|----|-----|------|-----------------------------|
| | | 0.8 | 0.64 | |
| VD | 10 | ○ | ○ | |
| | 9 | ○ | - | |

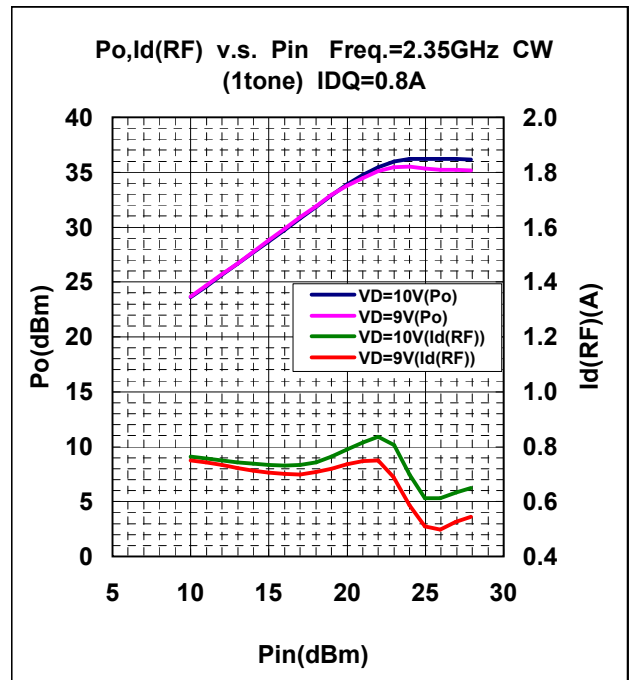
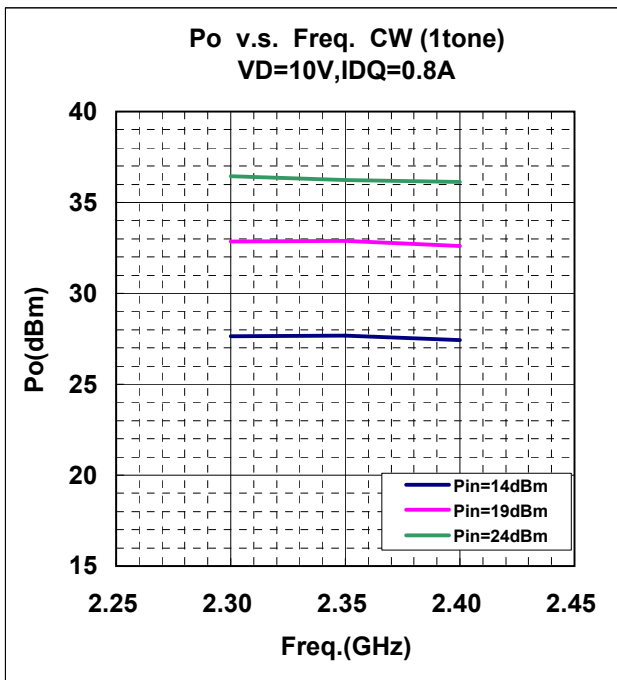
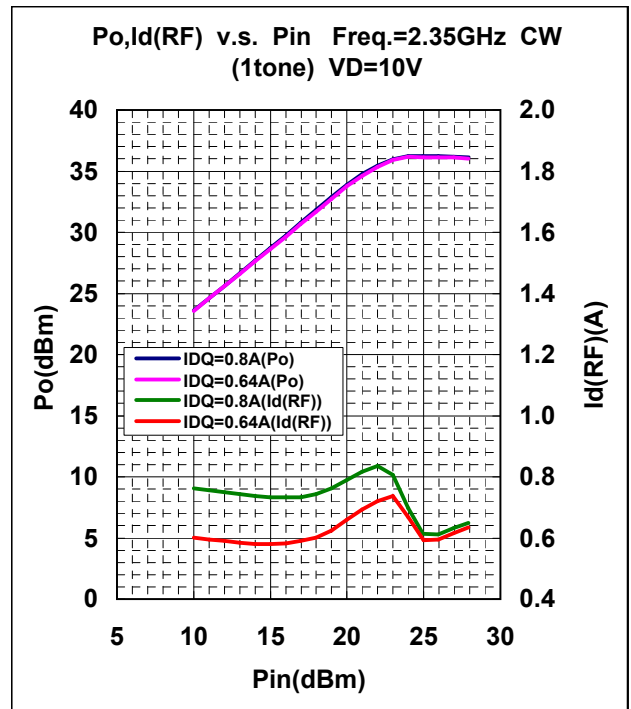
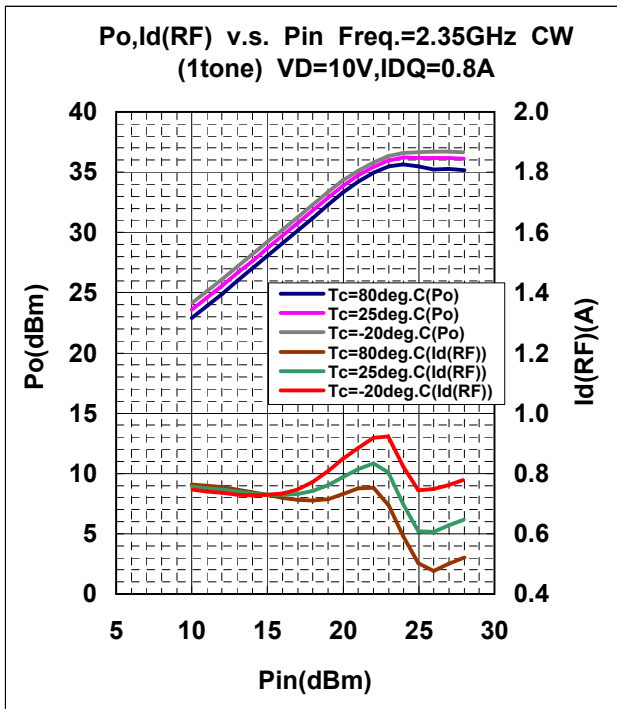
| Tc | CW | ACLR | Vd=10V, IDQ=0.8A Freq.=2.35GHz |
|-----|----|------|-----------------------------------|
| -20 | ○ | ○ | |
| +25 | ○ | ○ | |
| +80 | ○ | ○ | |

| ACLR | | IDQ | | Tc=25deg.C Freq.=2.35GHz |
|------|----|-----|------|-----------------------------|
| | | 0.8 | 0.64 | |
| VD | 10 | ○ | ○ | |
| | 9 | ○ | - | |

| IMD | | IDQ | | Tc=25deg.C Freq.=2.35GHz |
|-----|----|-----|------|-----------------------------|
| | | 0.8 | 0.64 | |
| VD | 10 | ○ | - | |
| | 9 | - | - | |

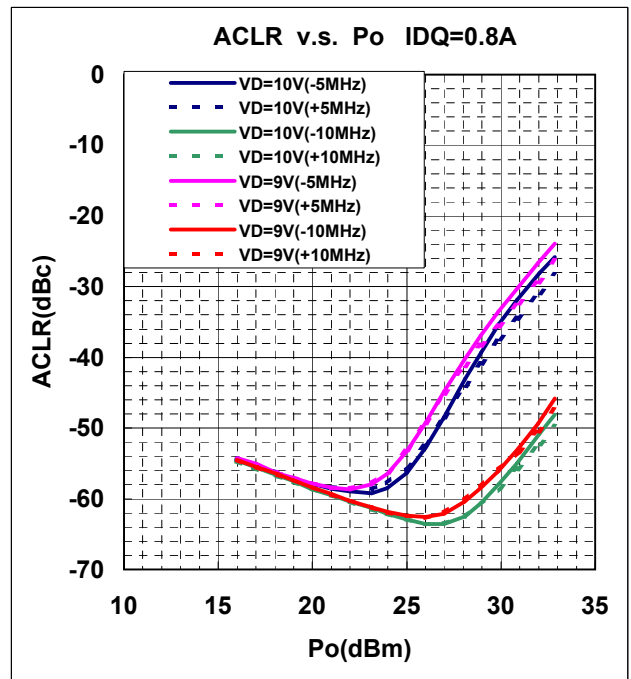
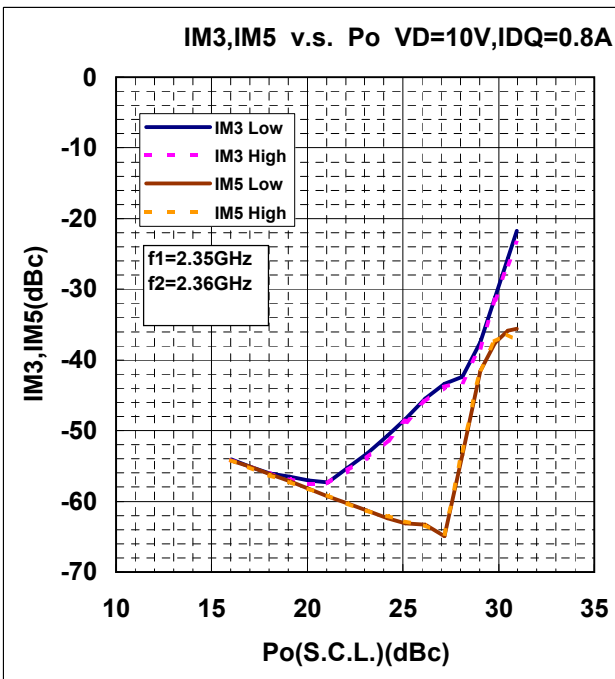
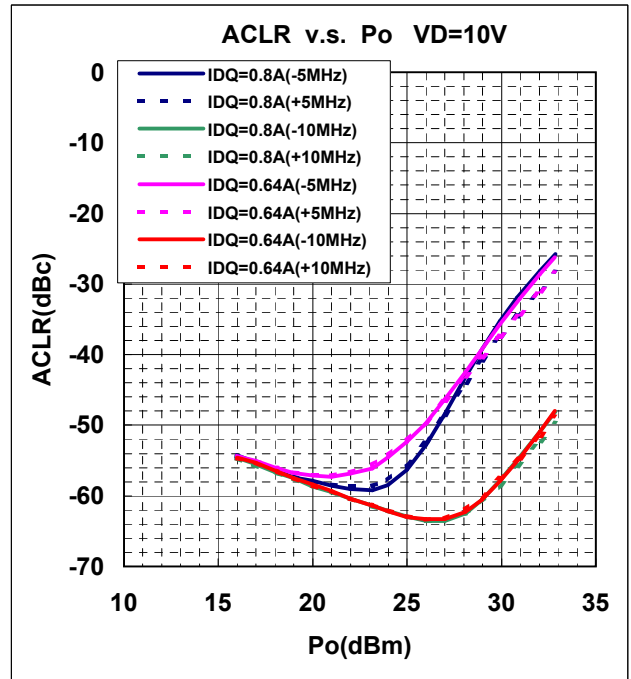
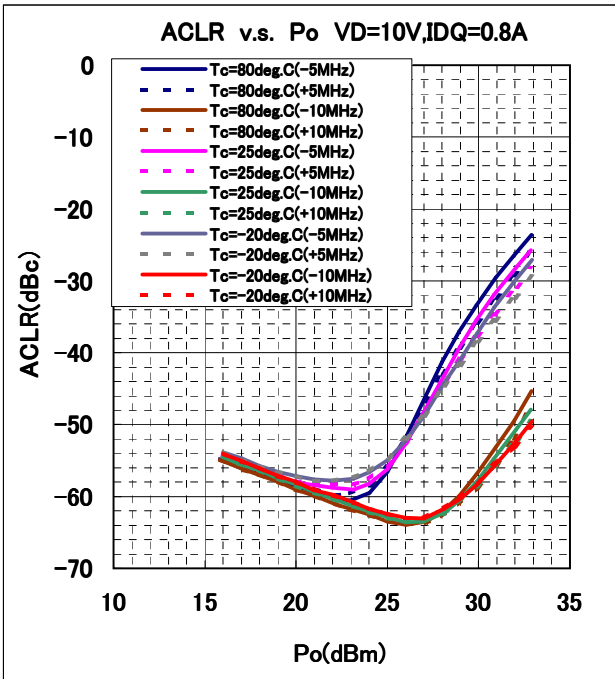
- **Results**
Page2-3 shows the RF characteristics data.
Page 4 shows the Equivalent Circuit

MGF0915A RF TEST DATA for Freq.=2.3-2.4GHz BAND

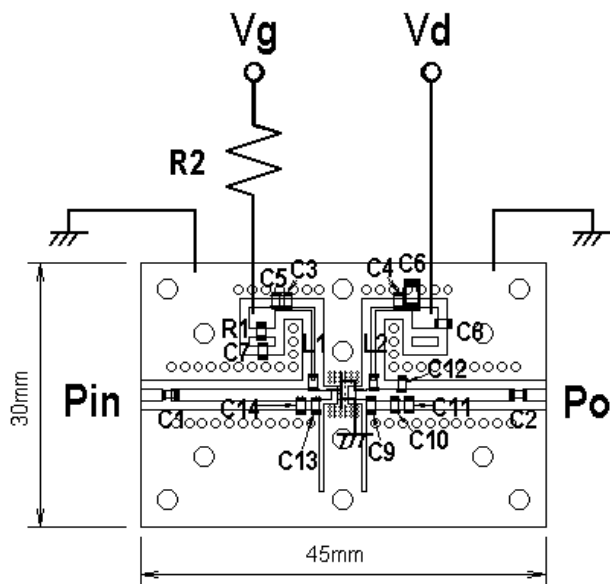


MGF0915A RF TEST DATA for Freq.=2.3-2.4GHz BAND

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



MGF0915A TEST FIXTURE $f=2.35\text{GHz}$



C1,C2,C3,C4=20pF
C5,C7,C8=1000pF
C14=2pF
C10,C12,C13=1pF
C9,C11=0.5pF
C6=4.7uF
L1,L2=12nH
R1=51ohm
R2=100ohm

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