

# APPLICATION NOTE



Date : 25<sup>th</sup> May. 2005

## SUBJECT:

### RF characteristics data of MGF0951P for Freq.=2.11-2.17GHz band

**SUMMARY:** This application note show the RF characteristics data of MGF0951P

- Sample history:  
MGF0951P : Lot number "3XAE"
- Evaluate conditions(In "○"part shown as follows, there is an evaluation result. )

| CW(1tone) |    | IDQ |      |                             |
|-----------|----|-----|------|-----------------------------|
|           |    | 0.2 | 0.16 |                             |
| VD        | 10 | ○   | ○    | Tc=25deg.C<br>Freq.=2.14GHz |
|           | 9  | ○   | -    |                             |

| Tc  | CW | ACLR | Vd=10V, IDQ=0.2A<br>Freq.=2.14GHz |
|-----|----|------|-----------------------------------|
| -20 | ○  | ○    |                                   |
| +25 | ○  | ○    |                                   |
| +80 | ○  | ○    |                                   |

| ACLR |    | IDQ |      |                             |
|------|----|-----|------|-----------------------------|
|      |    | 0.2 | 0.16 |                             |
| VD   | 10 | ○   | ○    | Tc=25deg.C<br>Freq.=2.14GHz |
|      | 9  | ○   | -    |                             |

| IMD |    | IDQ |      |                             |
|-----|----|-----|------|-----------------------------|
|     |    | 0.2 | 0.16 |                             |
| VD  | 10 | ○   | -    | Tc=25deg.C<br>Freq.=2.14GHz |
|     | 9  | -   | -    |                             |

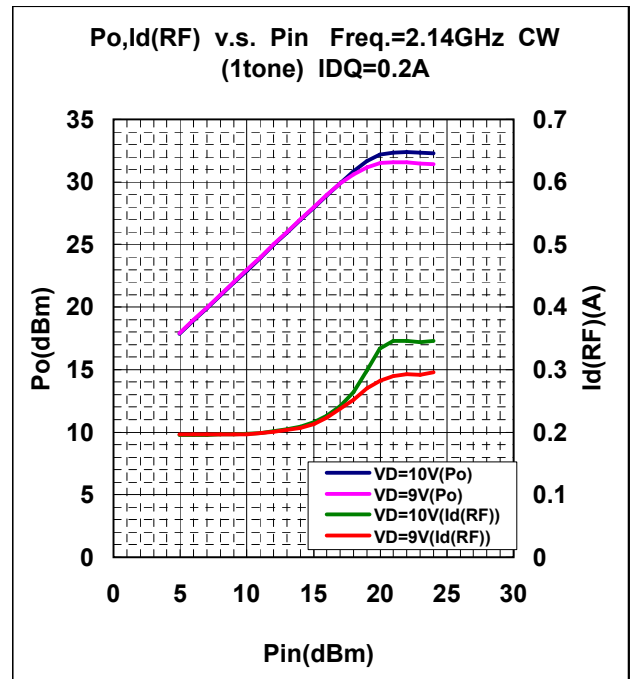
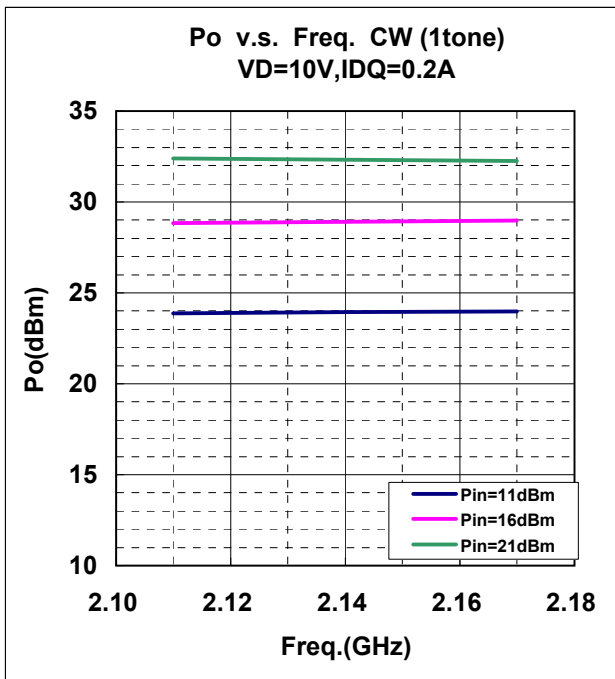
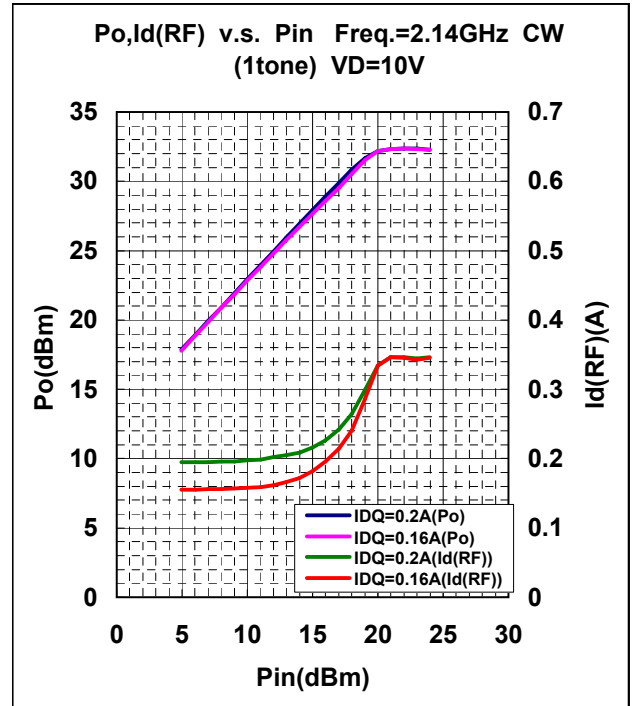
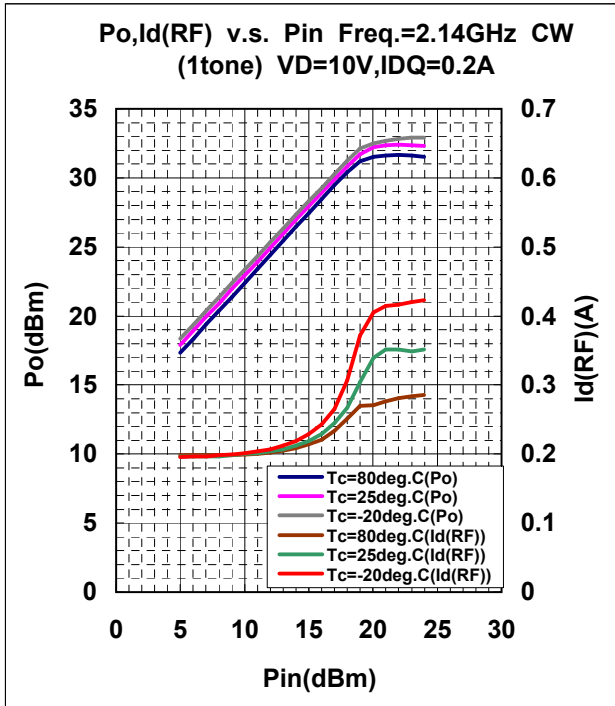
- Results  
Page2-3 shows the RF characteristics data.  
Page 4 shows the Equivalent Circuit

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**MGF0951P RF TEST DATA for Freq.=2.11-2.17GHz BAND**

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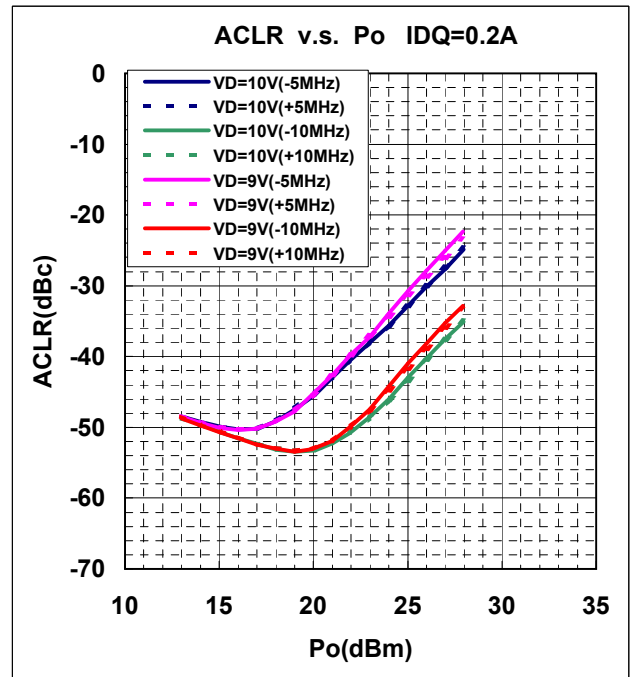
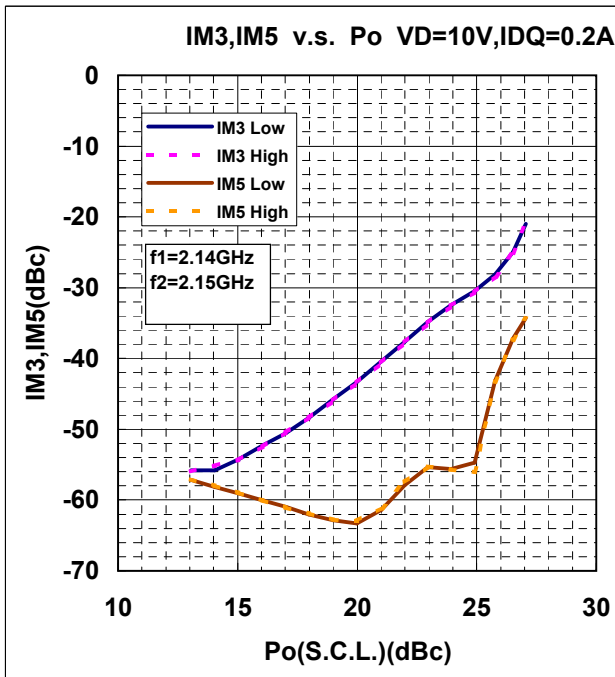
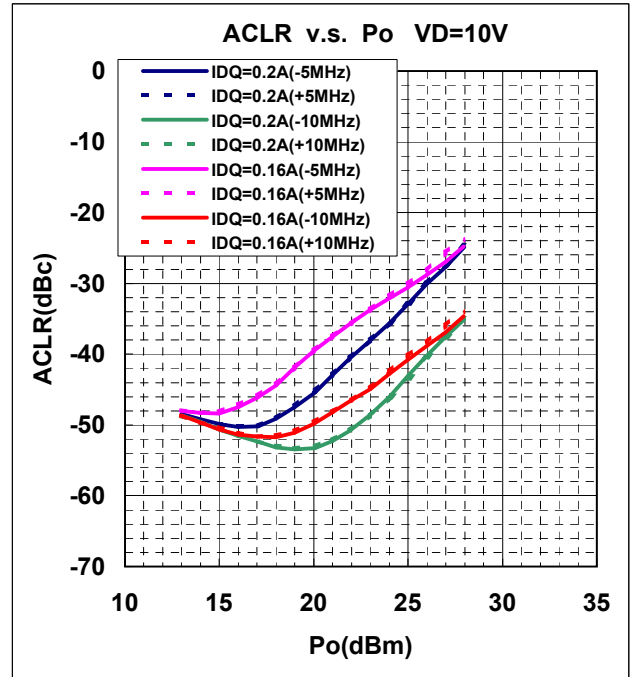
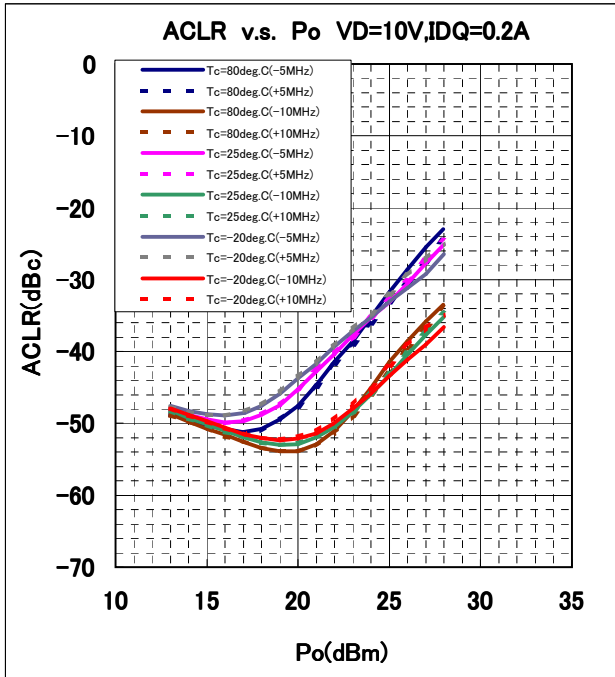


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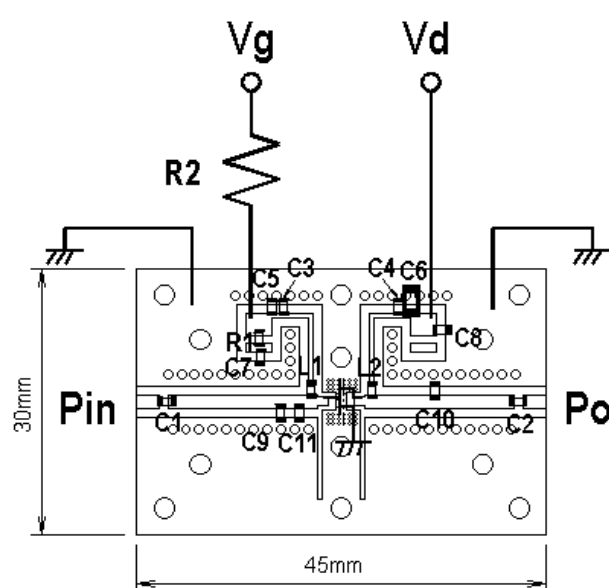
## MGF0951P RF TEST DATA for Freq.=2.11-2.17GHz BAND

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



## MGF0951P TEST FIXTURE f=2.11-2.17GHz



C1,C2,C3,C4=20pF  
C5,C7,C8=1000pF  
C9=2pF  
C10=1pF  
C11=0.5pF  
C6=4.7uF  
L1,L2=12nH  
R1=51ohm  
R2=500ohm

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