

MGFC5213

K-Band 2-Stage Power Amplifier

Target Specifications

ELECTRICAL CHARACTERISTICS (Ta=25 Degree C.)

Symbol	Parameter	Test Conditions	Limits			Unit
			Min.	Typ.	Max.	
IDSS1	Drain Saturation Current	Vd=3.0V	600	-	960	mA
IDSS2	Drain Saturation Current		1200	-	1920	mA
Vp1	Pinch Off Voltage	Vd=3.0V, Id=2.4mA	-2.0	-	-1.0	V
Vp2	Pinch Off Voltage	Vd=3.0V, Id=4.8mA	-2.0	-	-1.0	V
P1dB	Output Power at 1 dB Compression Point	f=27.5-30.0 GHz, Vd1=Vd2=6.0V , Id1=360mA* , Id2=720mA* Pout=30dBm	30.0	-	-	dBm
Gain	Gain		11.0	-	-	dB
Inpur Return Loss	Inpur Return Loss		-	10.0	-	dB
Out Put Return Loss	Out Put Return Loss		-	10.0	-	dB
IM3	Inter Modulation Level	f=27.5-30.0 GHz, Vd1=Vd2=6.0V , Id1=360mA* , Id2=720mA* Pout=30dBm	22.0	-	-	dBc

*:Ids at RF off

MGFC5213 Die Size and Bond Pad Position

UNIT:um

