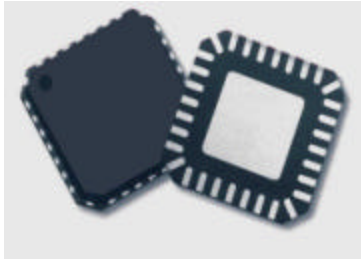




Power Amplifier 1.85/1.91 GHz

PAM-018-05-M48 PRELIMINARY



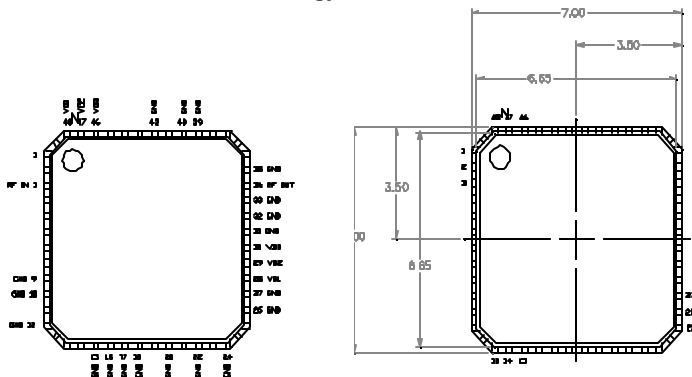
Small MLF plastic package 7x7mm

POWER AMPLIFIER DESCRIPTION

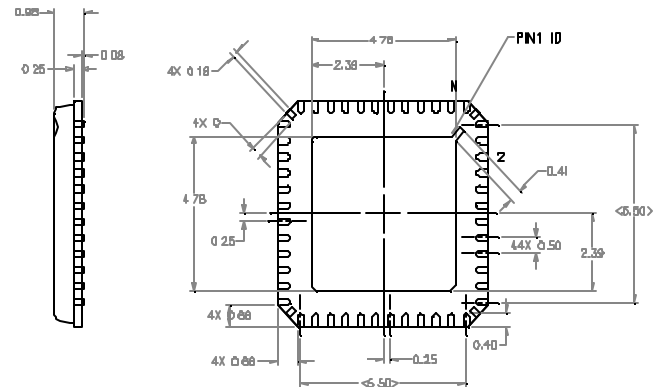
- Three stage Power Amplifier
- Supports both US PCS bands
- Input & Output Matched to 50Ω
- Very Stable over Temperature
- PHEMT Technology

ELECTRICAL SPECIFICATIONS

Frequency:	1.850 – 1.910 GHz
Small Signal Gain:	37.0 dB
P _{OUT} for IS-136 TDMA:	30.0 dBm
ACPR for CDMA @ P _{OUT} = 28.5dBm	-45 dBc/30kHz
Harmonics	
2nd:	-30 dBc
3rd:	-35 dBc
Return Loss	
Input:	10 dB
Output:	8 dB
V _D	+3.5V
V _G	+0.3 to -1V
Standby Current	IS-136 Mode 250mA
	CDMA Mode 100mA
Supply Current	IS-136 30dBm 850mA
	CDMA 28.5dBm 600mA
Efficiency	@ 30dBm 40%
	@ 28.5dBm 35%

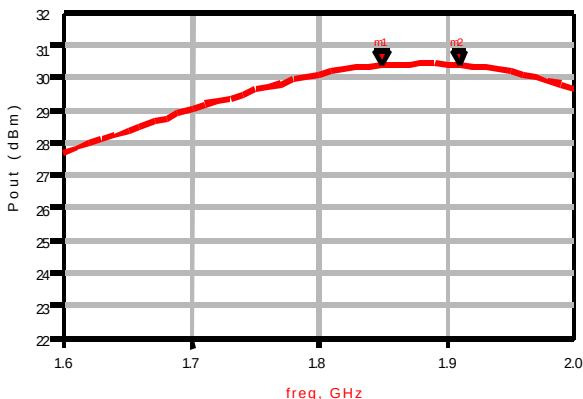


TOP VIEW



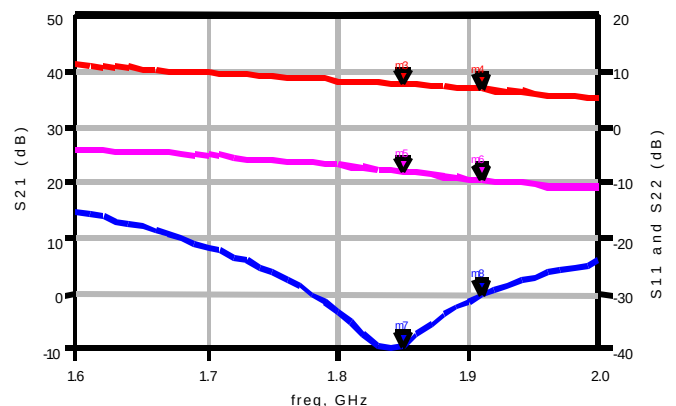
BOTTOM VIEW

TYPICAL PREDICTED PERFORMANCE



m1
freq=1.850GHz
Pout_dBm=30.391

m2
freq=1.910GHz
Pout_dBm=30.395



m3
freq=1.850GHz
dB(SS_GAIN_INTARSIA.. S(2,1))=37.622

m5
freq=1.850GHz
dB(SS_GAIN_INTARSIA.. S(2,2))=-8.102

m7
freq=1.850GHz
dB(SS_GAIN_INTARSIA.. S(1,1))=-39.122

m4
freq=1.910GHz
dB(SS_GAIN_INTARSIA.. S(2,1))=36.687

m6
freq=1.910GHz
dB(SS_GAIN_INTARSIA.. S(2,2))=-9.587

m8
freq=1.910GHz
dB(SS_GAIN_INTARSIA.. S(1,1))=-30.117