查询FA01220A供应商 捷多邦，专业PCB打样工厂，24小时加急出货

FA01220A

GaAs FET HYBRID IC

DESCRIPTION

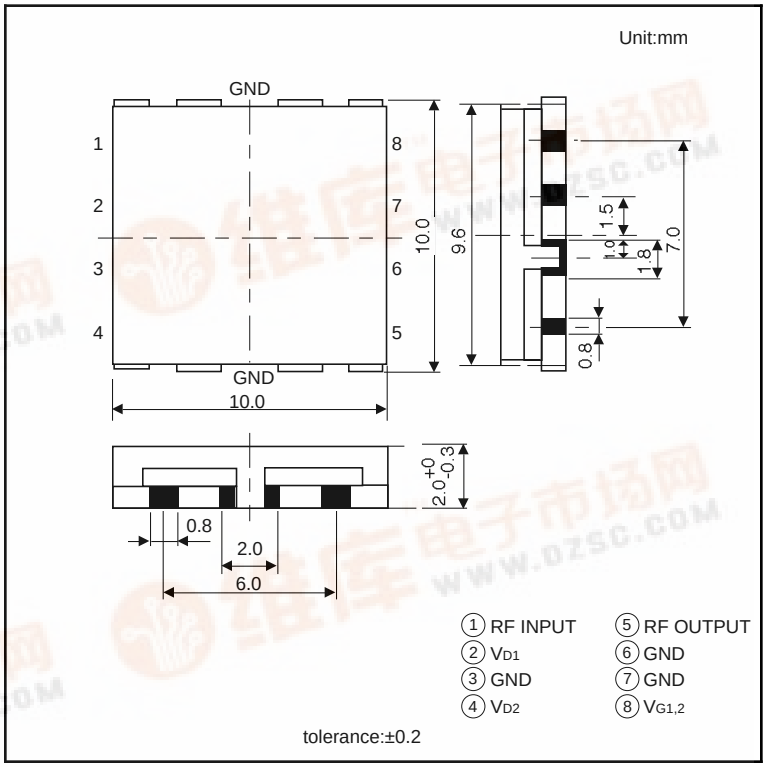
FA01220A is RF Hybrid IC designed for 1.5GHz band small size handheld radio.

FEATURES

- Low voltage 3.5V
- High gain 20.5B
- High efficiency 50%
- High power 30.5dBm

APPLICATION

PDC1.5GHz



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Condition	Ratings	Unit
V_D	Drain voltage	Tc=25˚C, Po≤30.5dBm	4.5	V
P_{in}	Input power	Tc=25˚C, Z_G=Z_L=50Ω	15	dBm
$T_{c(op)}$	Operating case temp		-20 to +85	˚C
T_{stg}	Storage temp		-30 to +90	˚C

Note: Each maximum ratings is guaranteed independently and duty=1/3 operation. T=20 msec

ELECTRICAL CHARACTERISTICS (T_a=25˚C)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
f	Frequency		1429	–	1453	MHz
P_{in}	Input power	P_O=30.5dBm V_{D1}=V_{D2}=3.5V $V_{G1,2}$=-2.5V Z_G=Z_L=50Ω (π/4DQPSK)	–	(7)	10	dBm
I_{Dt}	Total drain current		–	640	720	mA
ρin	Return loss		–	–	-6	dB
ACP50	±50kHz adjacent channel power		–	–	-47	dBc
ACP100	±100kHz adjacent channel power		–	–	-62	dBc
2fo	2nd harmonics	Ditto (CW)	–	–	-30	dBc
3fo	3rd harmonics		–	–	-30	dBc

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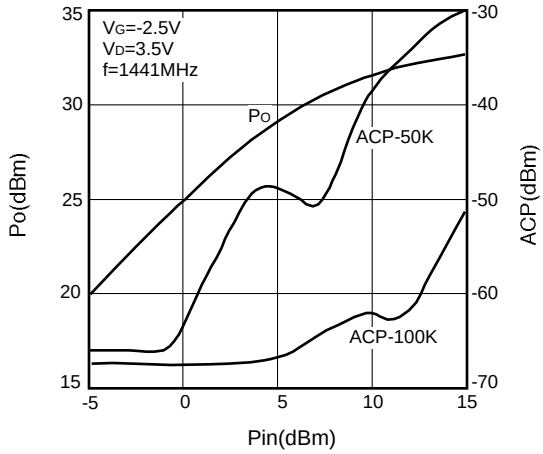
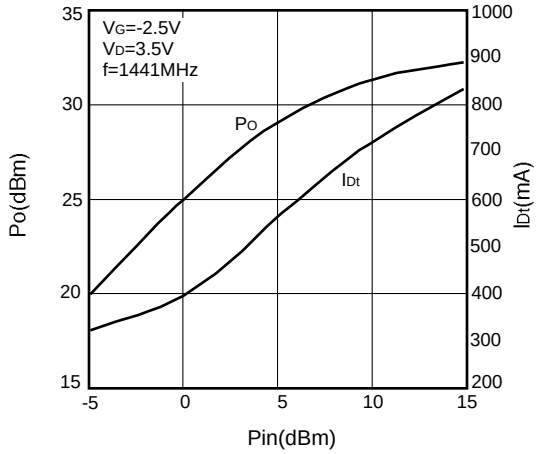
TYPICAL CHARACTERISTICS 1

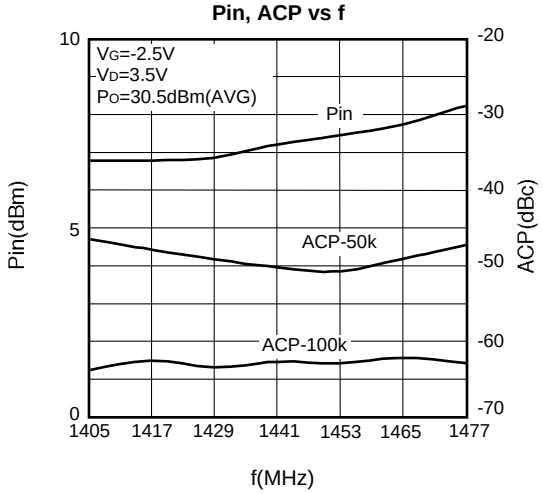
Po,ACP vs Pin



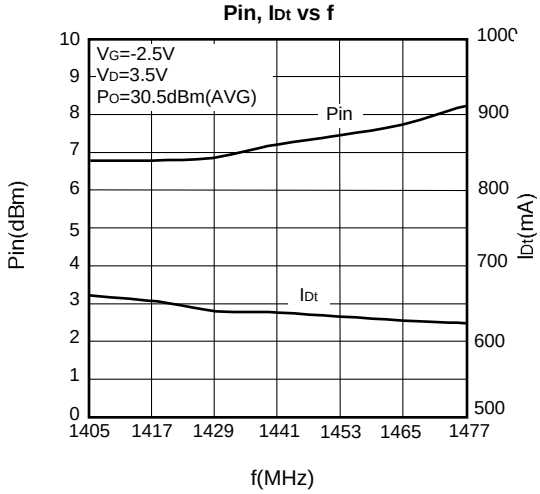
Po,IDt vs Pin



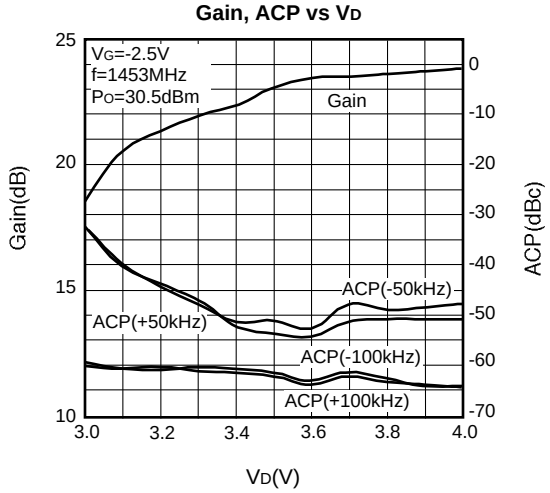
Pin, ACP vs f

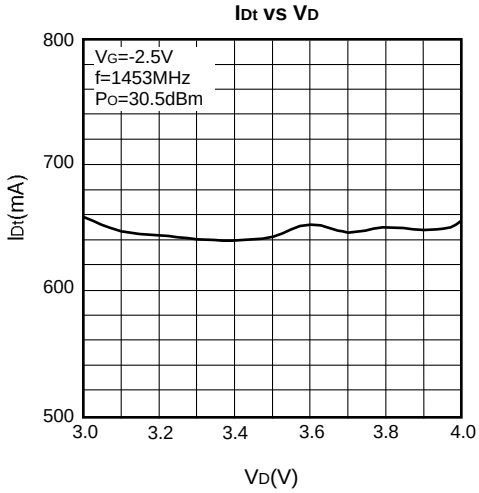


Pin, IDt vs f



TYPICAL CHARACTERISTICS 2





EQUIVALENT CIRCUIT