Preliminary

FA01229

Specifications are subject to change without notice.

GaAs FET HYBRID IC

DESCRIPTION

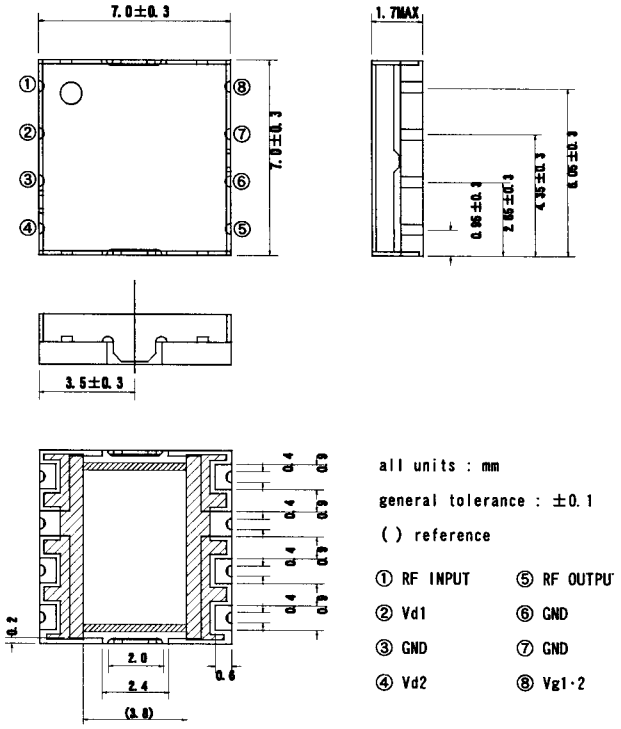
FA01229 is RF Hybrid IC designed for 1.5GHz band small size handheld radio.

FEATURES

Low voltage	3.5V
High gain	27dB
High efficiency	56%
High power	29.8dBm

APPLICATION

PDC1500



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Condition	Tc	Ratings	Unit
VD	Drain voltage	Po≤29.8dBm	25°C	4.5	V
Pin	Input Power	ZG=ZL=50Ω	25°C	12	dBm
Tc(op)	Operation case temp.	--	--	-20 ~ +85	°C
Tstg	Storage temp.	--	--	-30 ~ +90	°C

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

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Condition	Limits			Unit
			MIN	TYP	MAX	
f	Frequency	--	1429	--	1453	MHz
Pin	Input Power	Po=29.8dBm	--	3	6	dBm
Idt	Total Drain Current	VD1=VD2=3.5V	--	480	--	mA
ρin	Return Loss	VG1,2=-2.50V	--	--	-6	dB
ACP50	±50kHz adjacent channel power	ZG=ZL=50Ω	--	-50	-48	dBc
ACP100	±100kHz adjacent channel power	(π/4 DQPSK)	--	-65	-62	dBc
2fo	2nd Harmonics	ditto	--	--	-40	dBc
3fo	3rd Harmonics	(CW)	--	--	-40	dBc