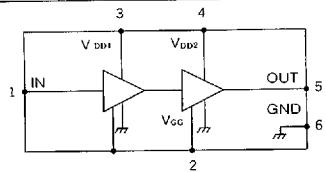
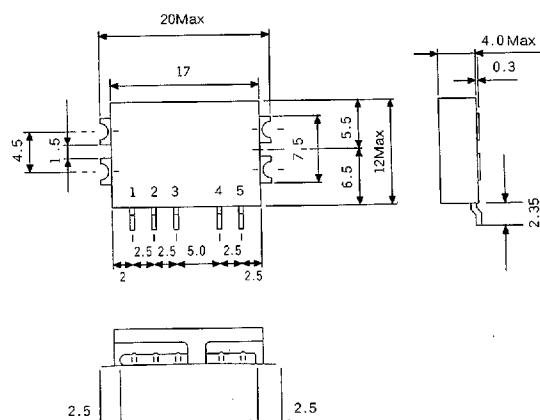


HIGH FREQUENCY HYBRID ICs**High frequency power amplifier****FEATURES**

This is a RF power amplifier of small size and high performance covering 900 MHz band. This is designed to limit at minimum the supply current by using FET of high speed and effective GaAs. It is suitable for analog system portable telephone. It is applicable for U.K. TACS system of 872 to 905 MHz band.

ABSOLUTE MAXIMUM RATING

Rating	Symbol	Value	Unit	Condition
DC supply Voltage	V _{DD1}	7	V	
	V _{DD2}	10	V	V _{GG} = -3.7V
DC supply Voltage	V _{GG}	-5	V	
RF input power	P _{in}	+12	dBm	Z _g = Z _L = 50 Ω
Operating Case Temperature Range	T _{opr}	-25 ~ +75	°C	Z _g = Z _L = 50 Ω
Storage Temperature	T _{stg}	-35 ~ +120	°C	

EQUIVALENT CIRCUIT**OUTLINE DIMENSIONS**

Unit:mm

ELECTRICAL CHARACTERISTICS (T_c = 25°C)

Characteristics	Symbol	Min	Max	Unit	Measuring Condition
RF Output Power 1	P _{out1}	30.5		dBm	f = 872 ~ 905MHz Pin = 7dBm, V _{DD1} = 4.7V V _{DD2} = 4.7V, V _{GG} = -3.7V
RF Output Power 2	P _{out2}	28.2		dBm	f = 872 ~ 905MHz Pin = 7dBm, V _{DD1} = 4.2V V _{DD2} = 4.2V, V _{GG} = -3.7V
Total Current	I _{ccT}		460	mA	P _{out} = 30.0dBm V _{DD1} = Controlled V _{DD2} = 4.7V, V _{GG} = -3.7V
Input VSWR	VSWR		3	—	f = 872 ~ 905MHz Pin = 7dBm, V _{DD1} = 4.7V V _{DD2} = 4.7V, V _{GG} = -3.7V
Gate Current	I _{GG}		3	mA	
Harmonic output (2nd) (3rd) (4th)	2fo 3fo 4fo	-25 -25 -25		dBc	
Idle Current	I _{DD}		250	mA	Pin = NONE, V _{DD1} = 4.7V V _{DD2} = 4.7V, V _{GG} = -3.7V
Stability			all spurious output more than 60 dB below desired signal level		Pin = 12dBm V _{DD1} = 0 ~ 6V V _{DD2} = 0 ~ 6V V _{GG} = -3.7V LOAD VSWR < 3 ALL PHASE f = 872 ~ 905MHz
Load Mismatch			NO MODULE DAMAGE		Pin = 12dBm V _{DD1} = 6V V _{DD2} = 6V V _{GG} = -3.7V LOAD VSWR = 20 10s ALL PHASE f = 872 ~ 905MHz