



- PIN:
- ① Pin : RF INPUT
 - ② VBB : BASE BIAS SUPPLY
 - ③ VCC1: 1st. DC SUPPLY
 - ④ VCC2: 2nd. DC SUPPLY
 - ⑤ Po : RF OUTPUT
 - ⑥ GND: FIN

ABSOLUTE MAXIMUM RATINGS (Tc=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage	ZG=ZL=50Ω, VBB=9V	17	V
VBB	Bias voltage	ZG=ZL=50Ω, Vcc≤12.5V	9.5	V
Icc	Total current	ZG=ZL=50Ω	10	A
Pin (max)	Input power	ZG=ZL=50Ω, Vcc1≤12.5V	500	mW
PO (max)	Output power	ZG=ZL=50Ω	40	W
Tc (OP)	Operation case temperature	ZG=ZL=50Ω	-30 to +110	°C
Tstg	Storage temperature		-40 to +110	°C

Note. Above parameters are guaranteed independently.

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		380	400	MHz
Po	Output power		30		W
ηT	Total efficiency		40		%
2fo	2nd. harmonic	Pin=300mW, Vcc=12.5V, VBB=9V, ZG=ZL=50Ω		-30	dBc
3fo	3rd. harmonic			-30	dBc
ρin	Input VSWR			2.8	-
Gp	Power gain	Pin=10dBm, Vcc=12.5V, VBB=9V, ZG=ZL=50Ω	24		dB
IMD3	3rd. internal modulation	Vcc=12.5V, VBB=9V, Po (AVE)=20W,		-20	dBc
IMD5	5th. internal modulation	(Pin:controlled) 2tone, Δf=10kHz, ZG=ZL=50Ω		-28	dBc
-	Load VSWR tolerance	Vcc=15.2V, VBB=9V, Po=20W(Pin:controlled), ZG=50Ω, Load VSWR=8:1 (All phase)	No degradation or destroy		-
-	Stability	Pin=0-400mW, Vcc=10-16V, VBB=9V, Po≤35W ρl≤3.0 (All phase), ZG=50Ω	No parastic oscillation		Note 1

Note. Above parameters, ratings, limits and test conditions are subject to change.