



PIN :
 ① Pin : RF INPUT
 ② Vcc1 : 1st. DC SUPPLY
 ③ Vcc2 : 2nd. DC SUPPLY
 ④ Po : RF OUTPUT
 ⑤ GND : FIN

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

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage		17	V
Icc	Total current		10	A
P _{in(max)}	Input power	Z _G = Z _L = 50 Ω	0.8	W
P _{O(max)}	Output power	Z _G = Z _L = 50 Ω	40	W
T _{c(OP)}	Operation case temperature		- 30~110	°C
T _{stg}	Storage temperature		- 40~110	°C

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

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	P _{in} = 0.5W Vcc = 12.5V Z _G = Z _L = 50 Ω	68	88	MHz
P _O	Output power		30		W
η _T	Total efficiency		40		%
2fo	2nd. harmonic			- 25	dB
3fo	3rd. harmonic			- 30	dB
ρ _{in}	Input VSWR			2.8	-
-	Load VSWR tolerance	Vcc = 15.2V, Po = 30W (P _{in} : controlled) Load VSWR=20:1 (All phase), 2sec. Z _G = 50 Ω	No degradation		-