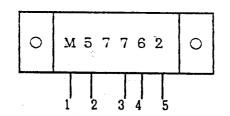
M 5 7 7 6 2

1296MHz LINEAR POWER AMPLIFIER INTEGRATED CIRCUIT



Pin 1; RF input Pin 2; Power for 1st stage

Pin 3; Base bias Pin 4; Power for 2nd and 3rd stage

Pin 5; RF output

*The flange is electrically and thermally connected to every Emitter of Transistor

inside. You must employ an adequate Heat Sink to keep the IC not too hot. It is not neccessary to insulate the flange from the Heat Sink electrically.

MAXIMUM//RATINGS

T=25℃

DESCRIPTION	SYMBOL	RATING	UNIT	CONDITION	
Supply Voltage	V _{cc}	17	Volt		
Base Bias Voltage	V _{BB}	10	Volt		
Current Consumption	Icc	8	Ampere	V _{cc} =12.5V, V _{BB} =9V	
Drive Power	Pin	2	Watt		
RF Output	Po	25	Watt	Ζ =50Ω	

//C/H/A/R/A/C/T/E/R/1//S/T/A//C/S//

DESCRIPTION	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITION	
RF Output	Po	18	20		Wátt	$V_{CC} = 12.5V, V_{BB} = 9V, P_{IN} = 1W$	
Efficiency	η	30	35		%	Same as above	
Bias Curr.	Iss			500	m A	Same as above	
2nd Harm.				-45	d B	Same as above	
Input VSWR	ρ			2.0	_	Same as above	
Power Gain	Gp	13			dВ	V _{cc} =12.5V, V _{BB} =9V, P _{lN} =10mW	
3rd I.M.				-24	dВ	$V_{cc} = 12.5V, V_{BB} = 9V, P_0 = 14W$	

 $Z_{0}\!=\!Z_{L}\!=\!50\,\Omega$, 1.24 through 1.3GHz frequency range, $T\!=\!25\,\text{°C}$