



SS80T1000M1000A | 80~1000MHz, 1000W

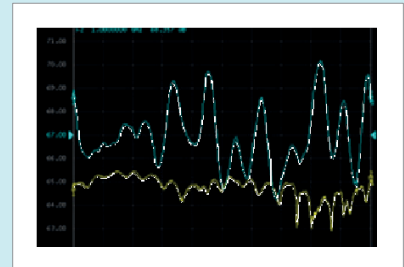
Amplifier General Description

This high power amplifier system covers the frequency range from 80 to 1000MHz. This utilizes LDMOS devices that provide high gain and excellent output power performance. With exceptional performance, long term reliability and high efficiency are available by using this application.

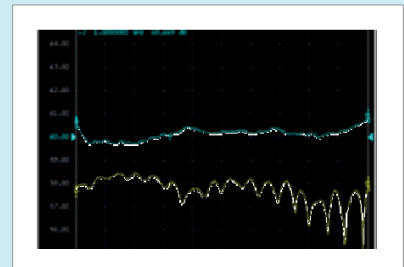


ELECTRICAL SPECIFICATIONS @ 220VAC, 25°C, 50Ω System

Parameter	Symbol	Specifications	Unit
Operating Frequency	BW	80 ~ 1000	MHz
Power Output CW	P _{SAT}	1000 Min.	Watt
Power Gain @ CW	G1dB	60 Typ.	dB
Input Power Range	P _{IN}	0 Typ.	dBm
Gain Adjustment Range	VVA	20 Typ.	dB
Input Return Loss	S ₁₁	-10 Typ.	dB
Noise Figure @ maximum gain	NF	10 Typ.	dB
Third Order Intermodulation 2-Tone @ 54dBm/Tone, 1MHz Spacing	IM3	-20 Typ.	dBc
Harmonics @ P _{OUT} (without Harmonic Suppression Filters)	2ND	-20 Max.	dBc
	3RD	-10 Max.	
Spurious Signals	Spur	-60	dBc
Operating Voltage –(1-phase)	VAC	210 ~ 230	Volt
Power Consumption @ 1000W CW	PD	5000 Typ.	Watt



Plot 1 – Small Signal Gain and Flatness
Top Curve: Small Signal Gain @ P_{IN} = -30dBm
Reference: 67dB, 1dB/div.
Bottom Curve: Input Return Loss
Reference: 0dB, 10dB/Div.



Plot 2 – Output Power @ 1000W Leveled
Top Curve: Power Gain @ 60dBm, P_{IN} = 0dBm
Reference: 60dB, 1dB/div.
Bottom Curve: Input Return Loss
Reference: 0dB, 10dB/Div.