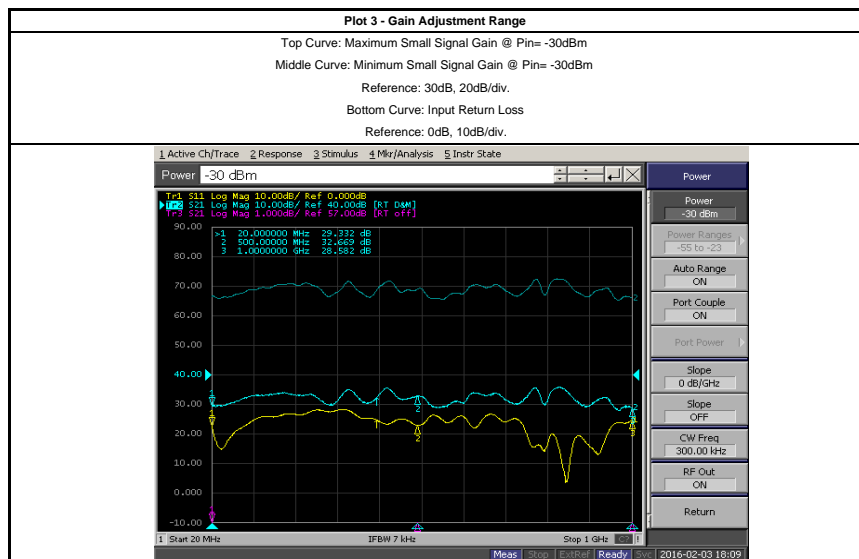
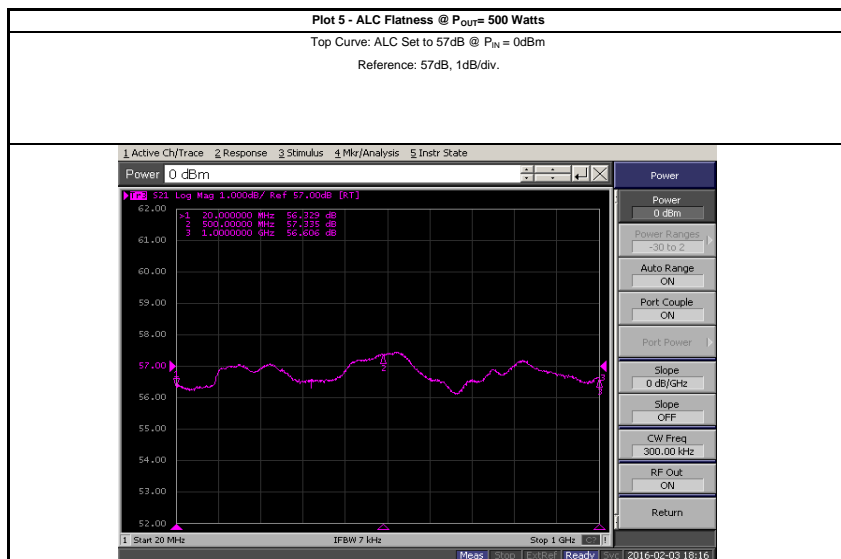
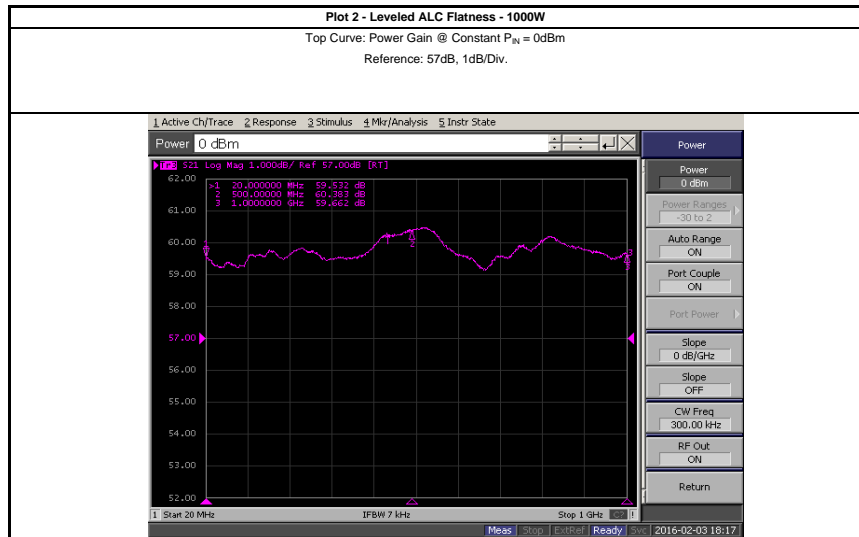
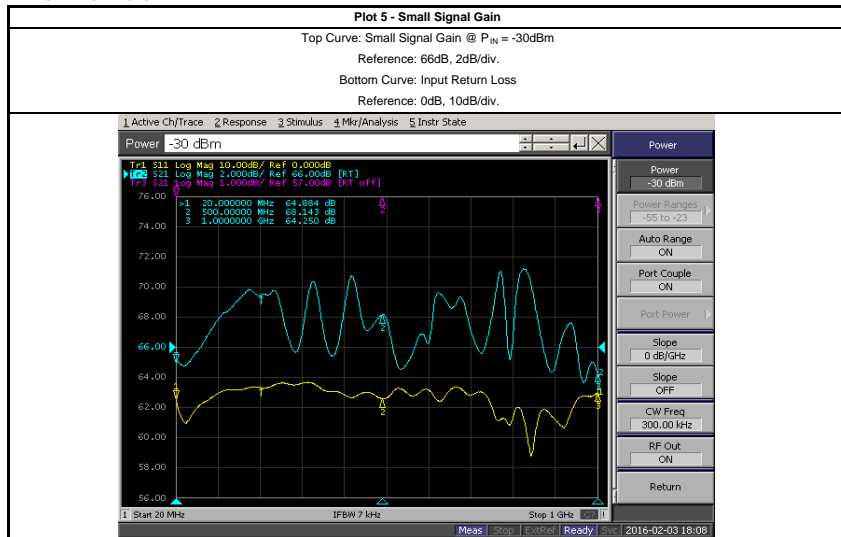


ELECTRICAL SPECIFICATIONS @ 208VAC, 25°C ambient, 50Ω System, MGC mode unless specified otherwise

Parameter	Specifications						Frequency (MHz) & TEST RESULTS												PASS	FAIL
	Symbol	Min	Typ	Max	Unit	Notes	20	100	200	300	400	500	600	700	800	900	1000			
Operating Frequency Range	BW	20		1000	MHz	Plot 1	x	x	x	x	x	x	x	x	x	x	x	PASS		
AM Peak Power @ 1dB Gain Compression <i>Note: Measured open loop using script; Actual power limited to 60.5dBm, Modulation @ 80%</i>	P _{AM}		60		dBm	Record	60.7	61.9	61.9	62.4	61.9	62.2	62	60.5	61.1	61.1	60.2	PASS		
Power Gain @ P _{Out} = 1000W	G _{1dB}	60			dB	Record	62.2	64.5	69.8	67.1	67.9	69.1	67	67.6	64.8	65.1	62.5	PASS		
Input power for rated P _{Out} = 1000W	P _{IN}		0		dbm	Record	-2.2	-4.5	-9.8	-7.1	-7.9	-9.1	-7	-7.6	-4.8	-5.1	-2.5	PASS		
Small Signal Gain Flatness, P _{IN} = -30dBm	ΔGSS			±3.5	dB	Plot 1	x	x	x	x	x	x	x	x	x	x	x	PASS		
Leveled ALC Flatness @ P _{Out} = 500W	ΔALC			±1.0	dB	Plot 3	x	x	x	x	x	x	x	x	x	x	x	PASS		
Leveled ALC Flatness @ P _{Out} = 1000W	ΔALC			±1.0	dB	Plot 2	x	x	x	x	x	x	x	x	x	x	x	PASS		
Gain Adjustment Range	VVA	20			dB	Plot 4	x	x	x	x	x	x	x	x	x	x	x	PASS		
Gain @ Shutdown Condition, P _{IN} = 0dBm	G _{SD}			-35	dB	Plot 5	x	x	x	x	x	x	x	x	x	x	x	PASS		
Input Return Loss	S ₁₁			-10	dB	Plot 1	x	x	x	x	x	x	x	x	x	x	x	PASS		
Third Order Inter-modulation Distortion (20-50MHz) 2-Tones @ 54dBm/Tone	IM3			15	dBc	Record	-20	x	x	x	x	x	x	x	x	x	x	PASS		
	IP3	61.5			dBm	Calculate	64	x	x	x	x	x	x	x	x	x	x	PASS		
Third Order Inter-modulation Distortion (50-1000MHz) 2-Tones @ 54dBm/Tone, 1MHz	IM3			20	dBc	Record	x	-26	-26	-36	-39	-34	-34	-34	-35	-34	-29	PASS		
	IP3	64			dBm	Calculate	x	67	67	72	73.5	71	71	71	71.5	71	68.5	PASS		
Harmonics @ P _{Out} = 1000W	2 ND			-20	dBc	Record	-21	-28	-40	-42	-34	-40	-43	-48	-51	-52	-40	PASS		
	3 RD			-10			-12	-12	-14	-20	-23	-29	-31	-38	-53	-53	-66	PASS		
	4 TH			-25			-25	-37	-36	-42	-57	-56	-65	<-70	<-70	<-70	<-70	PASS		
	5 TH			-15			-19	-19	-36	-39	-45	-60	<-70	<-70	<-70	<-70	<-70	PASS		
Spurious Signals	Spur		-70	-60	dBc	Record	-65	-62	-65	-65	-65	-65	-65	-65	-65	-65	-65	PASS		
Switching Time, 1KHz TTL, P _{IN} = 0dBm	T _{ON 90%}			10	uSec	Record	2.7										PASS			
	T _{OFF 10%}			10		Record	0.4										PASS			
Pulse Performance, FC= 500 MHz, P _{Out} = 1000W _{PEAK} , Pulse Period: 150us, 67% Duty Cycle	T _{RISE}			250	nSec	Record Plot 6&7 (Pg4)	129										PASS			
	T _{FALL}			250			67										PASS			
AM Modulation 85% depth FC = 100 MHz @ 250W average (~1000W _{PEAK})	1kHz			-20	dBc	Record	-21.8										PASS			
	20kHz			-20			-21.5										PASS			
Operating Voltage	V _{AC}	180	208	260	Volt	Verify	v										PASS			
Power Consumption @ Standby	P _{SD}			1080	VA	Record	312										PASS			
Quiescent Power Consumption	P _{DQ}			1800	VA	Record	686.4										PASS			
Power Consumption @ P _{Out} = 1000W	P _D			6000	VA	Record	4774	3850	3410	3872	4422	4664	4290	4620	4400	4400	4576	PASS		
NTE Test, Limiter = 60.5dBm	P _{OOD}			60.5	dBm	Verify	√										PASS			
Input Overdrive -Shut down	P _{IOD}			13	dBm	Verify	√										PASS			
VSWR Back-Off	VSWR		3:1			Verify	√										PASS			
Thermal Overload - Shut down	T _{OD}			85	°C	Verify	√										PASS			

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