

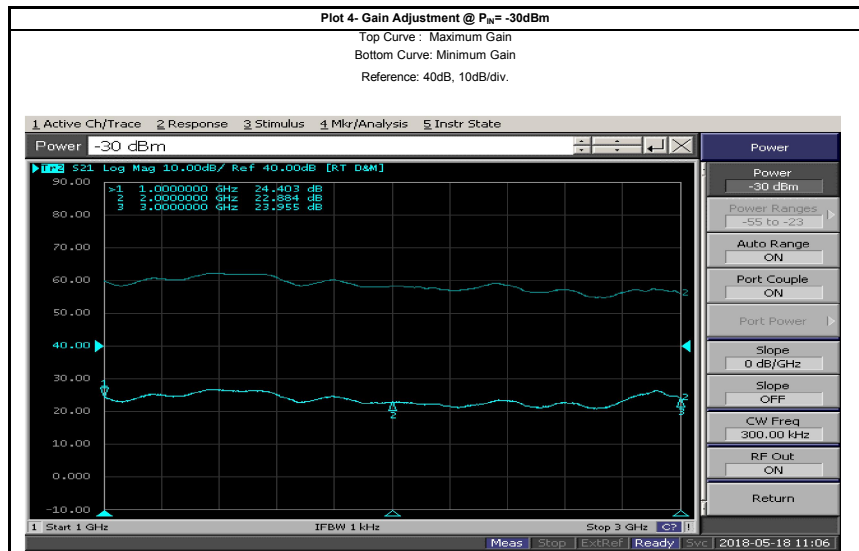
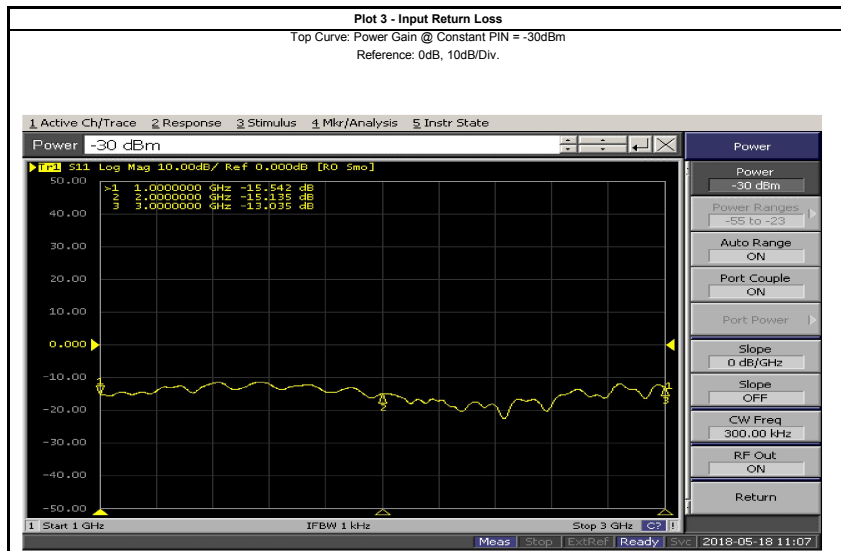
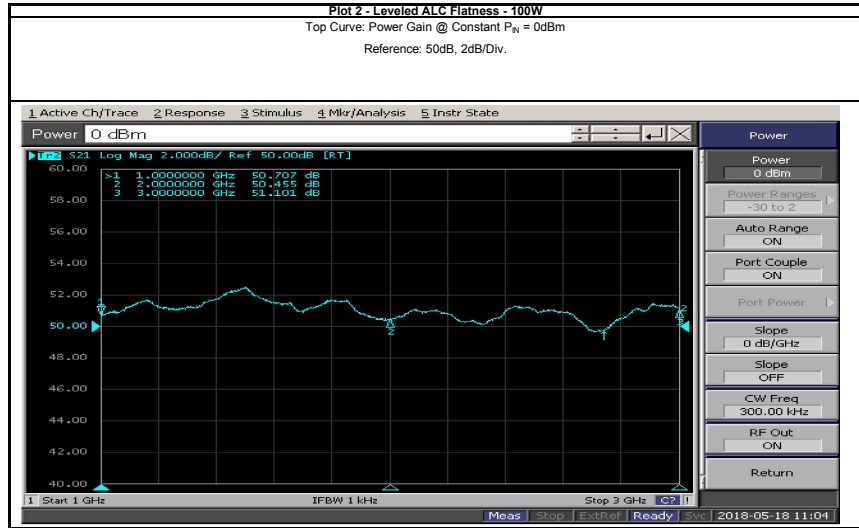
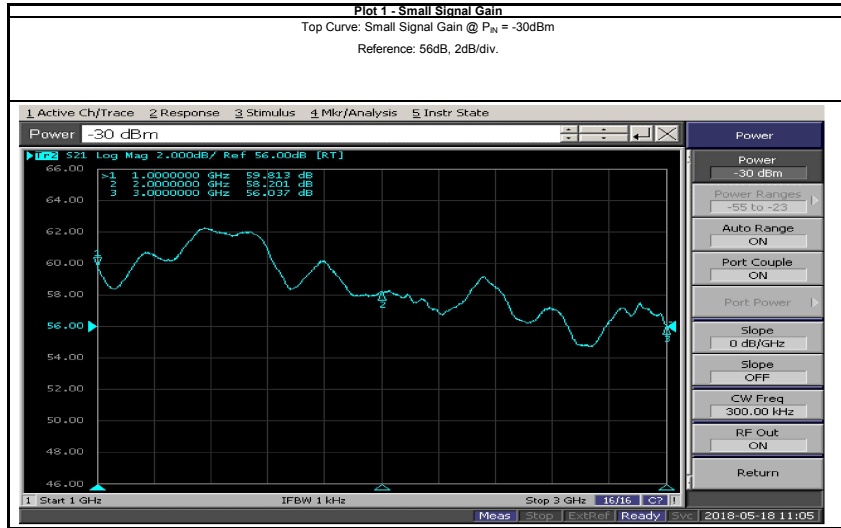
ELECTRICAL SPECIFICATIONS @ 120VAC 1-phase, 25°C ambient, 50Ω System, MGC mode unless specified otherwise

Parameter	Specifications						Frequency (MHz) & TEST RESULTS											
	Symbol	Min	Typ	Max	Unit	Notes	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	PASS/FAIL
Operating Frequency Range	BW	1000		3000	MHz	Plot 1	x	x	x	x	x	x	x	x	x	x	x	Pass
Output Power	dBm	50					50	50	50	50	50	50	50	50	50	50	50	Pass
Sample Port @ P <sub>OUT</sub> = 50.0 dBm	P <sub>sample</sub>	-5		5	dBm	Record												Pass
Power Reporting Accuracy	P <sub>FWD</sub>			±1.0	dB	Record (see pg3)	x	x	x	x	x	x	x	x	x	x	x	Pass
Power Gain @ P <sub>Out</sub> = 100W	G <sub>1dB</sub>	50			dB	Record	53.5	53.5	55.9	54.2	52	50.6	50.5	52.8	54.7	52.6	50.8	Pass
Input power for rated P <sub>OUT</sub> =100W	P <sub>IN</sub>			5	dbm	Record	-3.5	-3.5	-5.9	-4.2	-2	-0.6	-0.5	-2.8	4.7	2.6	0.8	Pass
Small Signal Gain Flatness, P <sub>IN</sub> = -30dBm; MGC Mode	ΔGSS			±3.5	dB	Plot 1	x	x	x	x	x	x	x	x	x	x	x	Pass
Leveled ALC Flatness @ P <sub>OUT</sub> = 100W	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
Input Return Loss	S <sub>11</sub>			-10	dB	Plot 3	x	x	x	x	x	x	x	x	x	x	x	Pass
Third Order Inter-modulation Distortion 2-Tones @ 44dBm/Tone, 1MHz	IM3		-20		dBc	Record	-33.0	-41.0	-39.0	-31.0	-33.0	-39.0	-31.0	-32.0	-24.0	-24.0	-30.0	Pass
Harmonics @ P <sub>OUT</sub> = 80W	2 <sup>ND</sup>			-15	dBc	Record	-21.0	-29.0	-24.0	-30.0	-33.0	-39.0	-45.0	-54.0	-45.0	<-60	<-60	Pass
	3 <sup>RD</sup>			-20			-34	-51.0	-45	-40.0	-52.0	<-60	-43	-43	-45	-30	-45.0	Pass
Spurious Signals	Spur		-70	-60	dBc	Record	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	Pass
Switching Time, 1KHz TTL, P <sub>IN</sub> = 0dBm (ALC MODE)	T <sub>ON 90%</sub>			1	uSec	Record	0.5										Pass	
	T <sub>OFF 10%</sub>			1		Record	0.6										Pass	
Power Consumption @ Standby	P <sub>SD</sub>			250	VA	Record	89										Pass	
Quiescent Power Consumption	P <sub>DQ</sub>			300	VA	Record	143										Pass	
							2.3	2.3	2.15	2	2.3	2.75	2.77	2.46	2.6	2.8	2.8	
Power Consumption @ P <sub>OUT</sub> = 100W	P <sub>D</sub>			750	VA	Record	469	445	398	390	468	532	518	457	503	586	576	Pass
Input Overdrive -Shut down	P <sub>IOD</sub>			10	dBm	Verify	√										Verified / Pass	
VSWR Back-Off	VSWR		2:1			Verify	√										Verified / Pass	
Thermal Overload - Shutdown	T <sub>OD</sub>			95	°C	Verify	√										Verified / Pass	

**Power Reporting Accuracy**

Forward Power, 50 Ohm Load (ALC MODE)							
Frequency (MHz)	Measuremnt Method	PIN =0dBm	PIN =0dBm	PIN =0dBm	PIN =0dBm	Limits	Pass/Fail
1000	External Test Equipment	49.9	46.9	44.9	40	±1 dB	Pass
	Ethernet Reporting	50	47	45	40		
	Pass/Fail						
2000	External Test Equipment	49.3	46.3	44.3	39.3	±1 dB	Pass
	Pass/Fail						
3000	External Test Equipment	49.6	47.5	45.6	40.7	±1 dB	Pass
	Pass/Fail	P	P	P	P		

PERFORMANCE PLOTS



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