



REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
A	PRODUCTION		

10W Ultra Wide Band AC- Power Amplifier 0.7GHz~ 6GHz

UCL-AMPW076G36-S

SPECIFICATIONS

ELECTRICAL:

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.7		3.0	3.0		6.0	GHz
Gain	35	37		35	37		dB
Gain Flatness		±2.5			±2.0		dB
Gain Variation Over Temperature(-45 ~ +85)		±1.0			±1.0		dB
Input Return Loss		15			12		dB
Output 1 dB Compression Point (P1dB)	35	38		35	38		dBm
Saturated Output Power (Psat)		41			40		dBm
Reference Supply Current (Idd) @+28V		350	1350		350	1350	mA
Isolation S12	65	70		65	70		dB

Weight	106.15 ounces	Impedance	50ohms
Input /Output Connector	SMA-Female	Material	Aluminum
Finishing	Black Painted Finish	Package Sealing	Epoxy Sealing (Standard) Hermetically Seal (Option with extra charge)

Absolute Maximum Ratings

Operating Voltage	230VAC
RF Input Power(RFIN)	+8dBm

Biasing Up Procedure

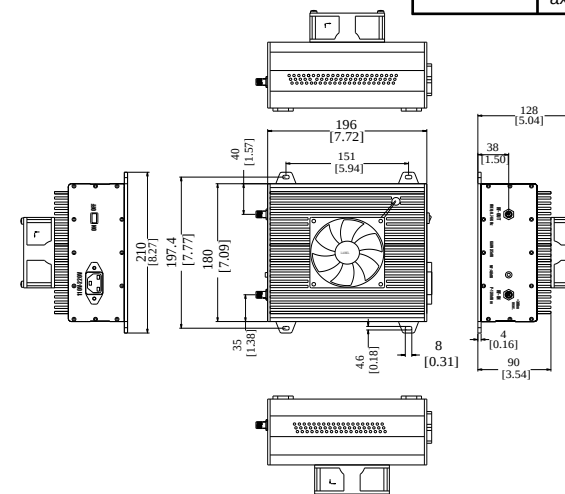
Step 1	Connect input and output with 50 Ohm source and load with in band return loss better than 10dB.
Step 2	Connect AC Plug
Step 4	Flip switch to "ON" position

Power OFF Procedure

Step 2	Flip switch to "OFF" position
Step 3	Remove AC Plug
Step 4	Remove RF Connection

Environmental Specifications

Operational Temperature	-45°C~+85°C
Storage Temperature	-55°C~+125°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment) 60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°c
Shock	20G for 11msec half sine wave,3 axis both directions



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SIZE

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CAGE CODE

MODEL

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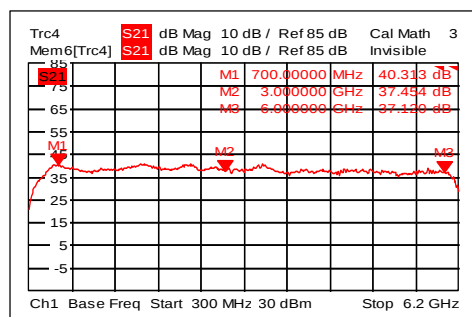
SCALE 1:1

DOC FAMILY

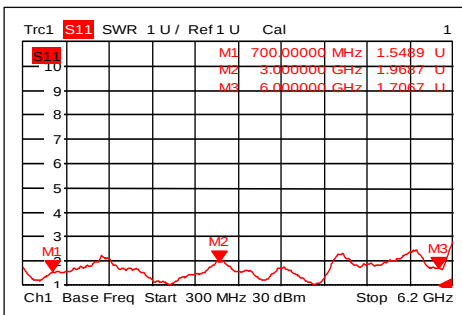
SHEET 1 OF 2



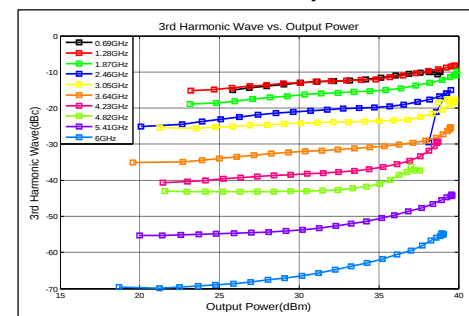
Gain



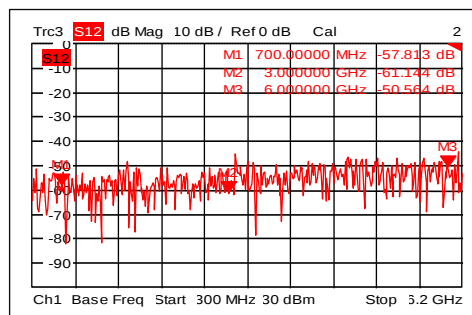
Input VSWR



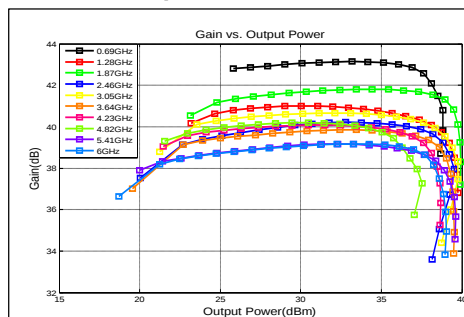
3rd Harmonic Wave Output Power



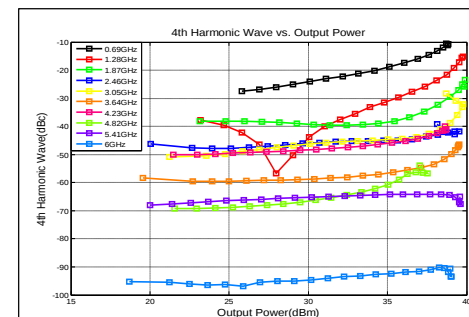
Isolation



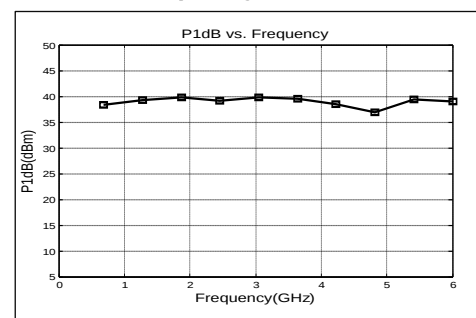
Gain vs. Output Power



4th Harmonic Wave Output Power



P1dB vs. Frequency



2nd Harmonic Wave Output Power

