

MTPA 8... 12GHz

Wideband GaN Amplifiers



STANDARD MODELS

Model	Frequency Range GHz	Output Power	Input Power	Small Signal Gain	Gain Flatness	Gain Adj	Input VSWR
		min / max / typ W	max dBm	min / typ dB	typ / max dB	max dB	typ / max
MTPA0812-30	8 ... 12	30/40/32	0	47/50	±3/±3.5	20	1.5/2
MTPA0812-50	8 ... 12	50/60/52	0	49/51	±3/±3.5	20	1.5/2
Model	Output VSWR typ / max	2nd Harmonic Power @ Pout typ / max dBc	3rd Harmonic Power @ Pout max dBc	Spur @ Pout typ / max dBc	IM3 typ / max dBc	Noise Floor typ / max dBm/MHz	Stability yes / no
MTPA0812-30	2/2.5	-35/-30	-30	-65/-60	23/17	-47/-45	Y
MTPA0812-50	2/2.0	-35/-30	-30	-65/-60	23/17	-47/-45	Y
Model	VSWR Load	Line Power VA	Dimensions (H, D) 19"-System	Weight Typ kg			
MTPA0812-30	3	300	2HU, 19"	6.5			
MTPA0812-50	3	600	3HU, 19"	16			

1 HU = 44.45 mm

STANDARD SPECIFICATIONS

Overdrive Protection:	up to +10 dBm for no damage
Input Impedance:	50 Ohm nominal
Output Impedance:	50 Ohm nominal
Noise Figure:	20 dB max.
Class of Operation:	AB-linear

GENERAL

RF Input:	SMA-f; standard on front panel
RF Output:	SMA-f; standard on front panel
Mains Supply:	<600 VA 200 ... 240 V AC
Power Meter:	via status display
Elapsed Time Meter:	via status display
Ambient Temperature:	0 ... +45 °C
Storage Temperature:	-20 ... +65 °C

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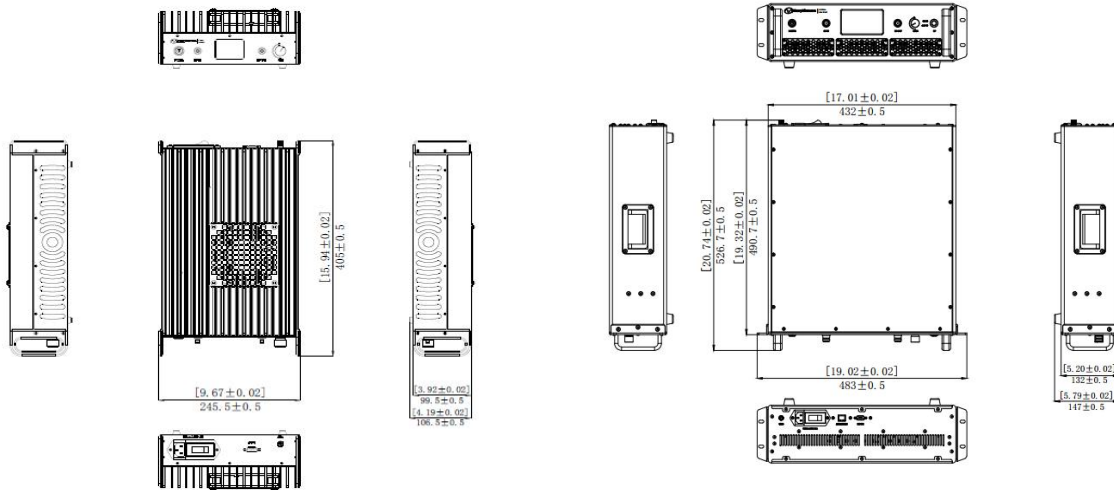
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Relative Humidity: up to 95% (non-condensing)
Operating Altitude: up to 2000 m above sea level
Vibration and Shock: normal laboratory environment
Cooling: forced air with integral blower
air intake and exhaust at rear

OPTIONS

- A) Forward & Reverse Monitor
- B) External Dual Directional Coupler
- C) IEEE-488.2 GPIB Remote Control
- G) Output isolation
- L) LAN Remote control
- M) 115 V AC / 47 ... 63 Hz
- N) Harmonic Filter
- R) RS-232C Remote Control
- U) USB Remote Control



2HU

3HU

8-12GHz 50W test data

