MTPA 0.7... 2.7GHz

Wideband GaN Amplifiers

STANDARD MODELS

Model	Frequency Range	Output Power	Input Power	Small Signal Gain	Gain Flatness	Gain Adj	Input VSWR
		min / max / typ	max	min / typ	typ / max	max	typ / max
	GHZ	W	dBm	dB	dB	dB	
MTPA0P72P7-20	0.7 ... 2.7	20/25/22	0	45	±1.5/±2	20	1.5/2
MTPA0P72P7-100	0.7 ... 2.7	100/120/110	0	52	±1.5/±2	20	1.5/2
MTPA0P72P7-200	0.7 ... 2.7	200/240/220	0	55	±1.5/±2	20	1.5/2

Model	Output VSWR	2nd Harmonic Power @ Pout	3rd Harmonic Power@ Pout	Spur @ Pout	IM3	Noise Floor	Stability
	typ / max	typ / max	max	typ / max	typ / max	typ / max	yes / no
		dBc	dBc	dBc	dBc	dBm/MHz	
MTPA0P72P7-20	2/2.5	-15/-12	-20	-65/-60	30/25	-45/-40	Y
MTPA0P72P7-100	2/2.5	-15/-12	-20	-65/-60	30/25	-45/-40	Y
MTPA0P72P7-200	2/2.5	-15/-12	-20	-65/-60	30/25	-40/-30	Y

Model	VSWR Load	Line Power	Dimensions (H, D)	Weight typ
		VA	19"-System	kg
MTPA0P72P7-20	3	300	3HU,19”	16
MTPA0P72P7-100	3	600	3HU,19”	20
MTPA0P72P7-200	3	1500	5HU,19”	30

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/N-f; standard on front panel
RF Output:	SMA-f/N-f; standard on front panel
Mains Supply:	<1500 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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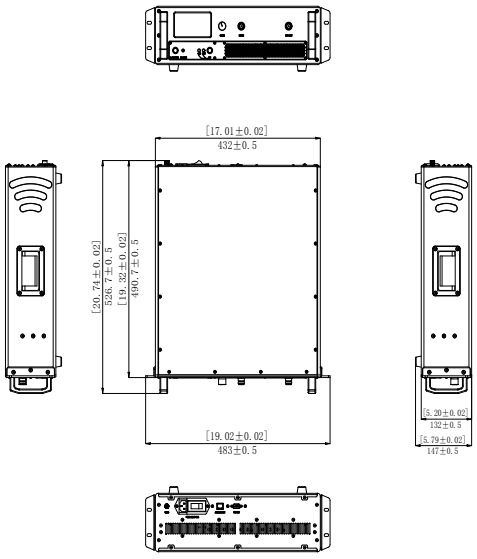
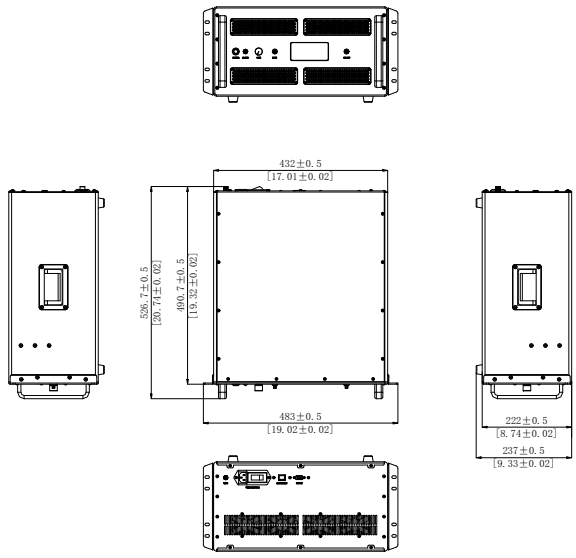
Relative Humidity:	up to 95% (non-condensing)
Operating Altitude:	up to 2000 m above sea level
Vibration and Shock:	normal laboratory environment
Cooling:	forced air with integral blower air intake and exhaust at rear

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



3HU



5HU

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ACTUAL TESTING DATA

0.7-2.7GHz 100W test data