

MTPA 2... 18GHz

Wideband GaN Amplifiers



STANDARD MODELS

Model	Frequency Range	Output Power	Input Power	Small Signal Gain	Gain Flatness	Gain Adj	Input VSWR
	GHz	min / max / typ W	max dBm	min / typ dB	typ / max dB	max dB	typ / max
MTPA0218-16	2 ... 18	16/20/18	+5	41/46	±4/±4.5	20	1.5/2
MTPA0218-20	2 ... 18	20/24/22	+5	41/46	±4/±4.5	20	1.5/2
MTPA0218-30	2 ... 18	30/34/32	+5	39/48	±4/±5.5	20	1.5/2
MTPA0218-40	2 ... 18	40/44/42	+5	45/49	±4/±5.5	20	1.5/2
MTPA0218-50	2 ... 18	50/55/52	+5	47/50	±4/±5.5	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 dBc	max dBc	typ / max dBc	typ / max dBc	typ / max dBm/MHz	yes / no
MTPA0218-16	2.5/3	-15/-10	-10	-65/-60	20/17	-50/-40	Y
MTPA0218-20	2.5/3	-15/-10	-10	-65/-60	20/17	-45/-40	Y
MTPA0218-30	2.5/3	-15/-10	-10	-65/-60	20/17	-40/-37	Y
MTPA0218-40	2.5/3.5	-15/-10	-10	-65/-60	20/17	-40/-35	Y
MTPA0218-50	2.5/3.5	-15/-10	-10	-65/-60	20/17	-40/-35	Y

Model	VSWR Load	Line Power	Dimensions (H, D)	Weight
		VA	19"-System	typ Kg
MTPA0218-16	3	300	2HU, 19"	6.5
MTPA0218-20	3	300	2HU, 19"	7
MTPA0218-30	3	500	3HU, 19"	16
MTPA0218-40	3	600	3HU, 19"	18
MTPA0218-50	3	800	4HU, 19"	22

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



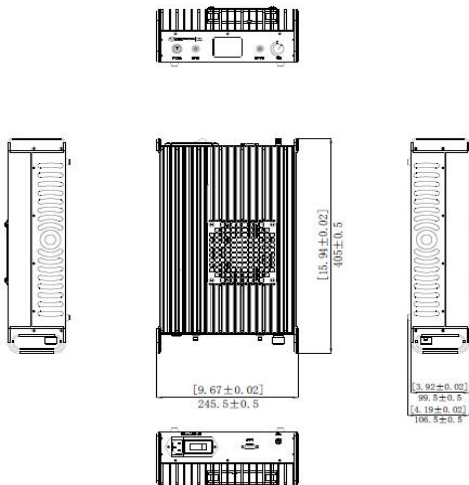
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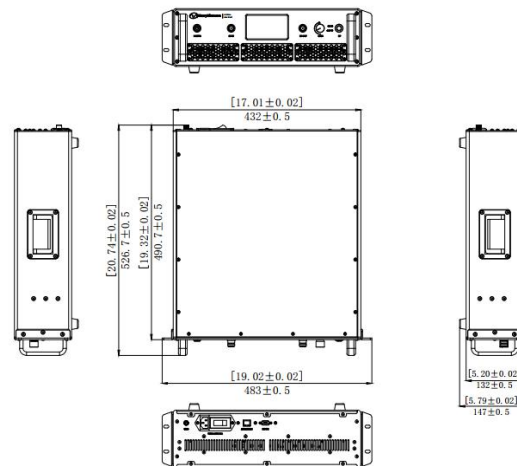
Relative Humidity: up to 95% (non-condensing)
 Operating Altitude: up to 2000 m above sea level
 Vibration and Shock: normal laboratory environment
 Cooling: forced air with integral blower
 air intake and exhaust at rear

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

ACTUAL TESTING DATA

2-18GHz 30W test data

