

MTPA 18 ... 26.5 GHz

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
MTPA1826-1	18 ... 26.5	1/1.5/1.2	0	30/32	±2/±2	15	1.5/2
MTPA1826-5	18 ... 26.5	5/8/6	3	37/38	±3/±3.5	15	1.5/2
MTPA1826-10	18 ... 26.5	10/14/12	5	40/45	±3/±4	15	1.5/2
MTPA1826-20	18 ... 26.5	20/25/22	5	43/46	±3/±4	15	1.5/2
MTPA1826-40	18 ... 26.5	40/45/42	5	46/49	±3/±4	15	1.5/2
MTPA1826-50	18 ... 26.5	50/60/54	5	46/50	±4/±5	15	1.5/2
MTPA1826-80	18 ... 26.5	80/100/90	5	50/53	±4/±5	15	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
MTPA1826-1	2/2.5	-15/-10	-10	-65/-60	NA	-53/-50	Y
MTPA1826-5	2.5/3	-15/-10	-10	-65/-60	NA	-53/-50	Y
MTPA1826-10	2.5/3	-15/-10	-10	-65/-60	NA	-45/-40	Y
MTPA1826-20	2.5/3	-15/-10	-10	-65/-60	NA	-45/-40	Y
MTPA1826-40	2.5/3	-15/-10	-10	-65/-60	NA	-45/-40	Y
MTPA1826-50	2.5/3	-15/-10	-10	-65/-60	NA	-45/-40	Y
MTPA1826-80	2.5/3	-15/-10	-10	-65/-60	NA	-45/-40	Y

Model	VSWR Load	Line Power VA	Dimensions (H, D) 19"-System	Weight typ kg
MTPA1826-1	3	100	2HU, 19"	6.5
MTPA1826-5	3	200	2HU, 19"	6.5
MTPA1826-10	3	300	3HU, 19"	18
MTPA1826-20	3	500	3HU, 19"	20
MTPA1826-40	3	600	5HU, 19"	30
MTPA1826-50	3	800	5HU, 19"	35
MTPA1826-80	3	1000	8HU, 19"	45

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; WR42
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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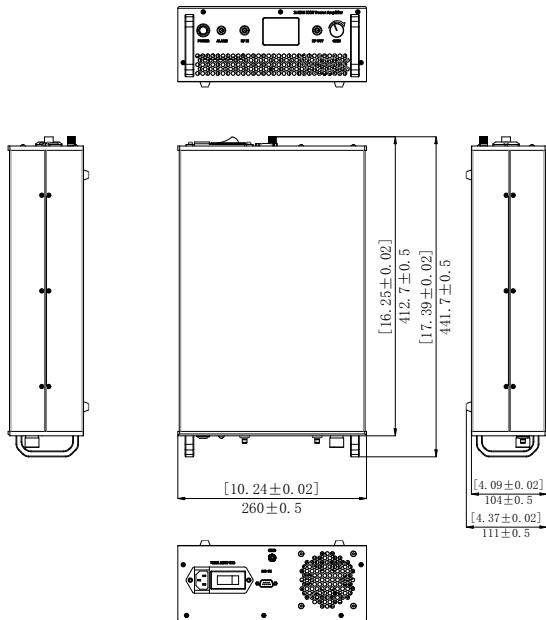
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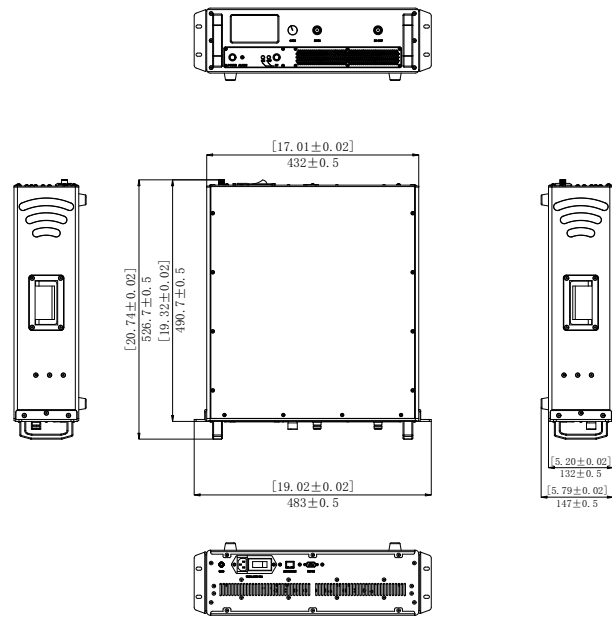
Relative Humidity: up to 95% (non-condensing)
 Operating Altitude: up to 2000 m above sea level
 Vibration and Shock: normal laboratory environment
 Cooling: forced air with integral blower
 air intake and exhaust at rear

OPTIONS

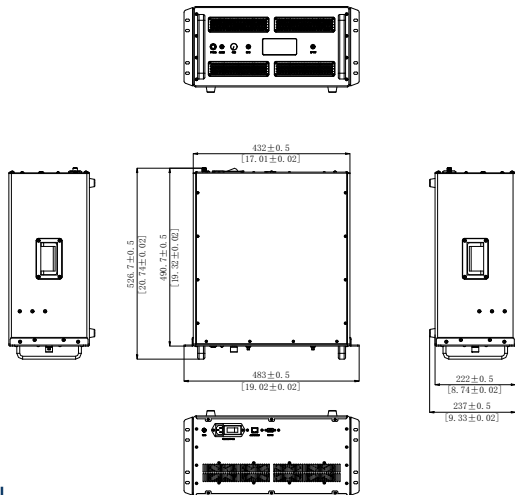
- A) Forward & Reverse Monitor
- B) External Dual Directional Coupler
- C) IEEE-488.2 GPIB Remote Control
- G) Output Isolation
- L) LAN Remote control
- M) 115 V AC / 47 ... 63 Hz
- N) Harmonic Filter
- R) RS-232C Remote Control
- U) USB Remote Control



2HU



3HU



5HU

18-26.5G 5W test data

