

MTPA 1... 2.5GHz

Wideband GaN Amplifiers



STANDARD MODELS

Model	Frequency Range GHz	Output Power min / max / typ W	Input Power max dBm	Small Signal Gain min / typ dB	Gain Flatness typ / max dB	Gain Adj max dB	Input VSWR typ / max
MTPA012P5-200	1...2.5GHz	200/230/210	5	53/56	±3/±4	25	1.5/2
MTPA012P5-300	1...2.5GHz	300/340/310	5	55/58	±3/±4	25	1.5/2
MTPA012P5-500	1...2.5GHz	500/550/510	5	57/60	±3/±4	25	1.5/2
MTPA012P5-1000	1...2.5GHz	1000/1200/1100	5	60/63	±3/±4	25	1.5/2
Model	Output VSWR typ / max	2nd Harmonic Power @ Psat typ / max dBc	3rd Harmonic Power@ Psat max dBc	Spur @ Psat typ / max dBc	IM3 typ / max dBc	Noise Floor typ / max dBm/MHz	Stability yes / no
MTPA012P5-200	1.5/2.0	-15/-10	-15	-62/-60	25/23	-35/-30	Y
MTPA012P5-300	1.5/2.0	-15/-10	-15	-62/-60	25/23	-25/-20	Y
MTPA012P5-500	1.5/2.0	-15/-10	-15	-62/-60	25/23	-23/-20	Y
MTPA012P5-1000	1.5/2.0	-15/-10	-15	-62/-60	25/23	-23/-20	Y
Model	VSWR Load	Line Power VA	Dimensions (H, D) 23"-System	Weight typ kg			
MTPA012P5-200	3	1000	3HU,19"	100			
MTPA012P5-300	3	1500	5HU,19"	150			
MTPA012P5-500	3	3000	25HU,19"	220			
MTPA012P5-1000	3	6000	25HU,19"	220			

1 HU = 44.45 mm

STANDARD SPECIFICATIONS

Overdrive Protection:	up to +2dBm for no damage
Input Impedance:	50 Ohm nominal
Output Impedance:	50 Ohm nominal
Noise Figure:	/.
Class of Operation:	AB-linear

GENERAL

RF Input:	N-f; standard on front panel
RF Output:	DIN-f; standard on front panel
Mains Supply:	<5000 VA 380 V AC
Power Meter:	via status display
Elapsed Time Meter:	via status display
Ambient Temperature:	15... +30 °C
Storage Temperature:	-20 ... +55 °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
- N) Harmonic Filter
- R) RS-232C Remote Control
- U) USB Remote Control

