

## STANDARD MODELS

Model	Frequency Range	Output Power P <sub>P</sub> min / Duty W / %	Pulse Width max. **)	Gain typ dB	Harmonics 2nd / 3rd dBc	Line Power VA	Dimensions (H, D) 19"-System	Weight kg
TWAP 0812-2500	8 ... 12.4 GHz	2500 / 6	50 µs	72 ±7.5	10 / 15	1500	4 HU, 630 mm	35
TWAP 0812-2500L	8 ... 12.4 GHz	2500 / 6	50 µs	72 ±7.5	10 / 15	1500	6 HU, 800 mm	48
TWAP 0812-4000L	8 ... 12.4 GHz	4000 / 6	50 µs	72 ±5	10 / 20	1600	6 HU, 800 mm	48
TWAP 0812-5000	8 ... 12 GHz					1600	4 HU, 630 mm	35
	8 ... 12 GHz	5000 / 6	50 µs	72 ±5	10 / 20			
	12 ... 12.4 GHz	4000 / 6	50 µs	71 ±5	20 / 20			
TWAP 0812-5000L	8 ... 12 GHz					1600	6 HU, 630 mm	48
	8 ... 12 GHz	5000 / 6	50 µs	72 ±5	10 / 20			
	12 ... 12.4 GHz	4000 / 6	50 µs	71 ±5	20 / 20			
TWAP 0812-8000	8 ... 12.4 GHz	8000 / 6	50 µs	77 ±7.5	15 / 20	4000	12 HU, 800 mm	100

For individual data sheets, please click on the above model name

1 HU = 44.45 mm

## STANDARD SPECIFICATIONS

Input Power:	0 dBm (1 mW) max.
Overdrive Protection:	up to +10 dBm for no damage
Input Impedance:	50 Ohm nominal
Output Impedance:	50 Ohm nominal
Input VSWR:	<2:1 typ.
Load VSWR:	infinite for no damage (100% mismatch tolerant)
	P <sub>N</sub> -0.5 dB min. at VSWR 2:1
P-RF:	100 kHz max.
Spurious (at P <sub>N</sub> ):	-50 dBc typ. (excluding harmonics)
Class of Operation:	A-linear

## GENERAL

RF Input:	<8 GHz	N-f, standard on rear panel
	8 to 18 GHz	SMA-f, standard on front panel
	>18 GHz	2.92 mm-f, standard on front panel
RF Output:	<8 GHz	7-16-f, standard on rear panel
	4 to 8 GHz	WRD 350, standard on rear panel
	8 to 12 GHz	WR 90, standard on rear panel
	8 to 18 GHz	WRD 750, standard on rear panel
	12 to 18 GHz	WR 62, standard on rear panel
Mains Supply:	PLine up to 3 kVA	200 ... 240 V AC
	PLine >3 kVA	3x 400 V AC
Elapsed Time Meter:	via status display	
Ambient Temperature:	0 ... +45 °C	
Storage Temperature:	-20 ... +85 °C	
Relative Humidity:	up to 95% (non-condensing)	

# TWAP 8 ... 12 GHz Pulsed TWT Amplifiers

**Operating Altitude:** up to 2000 m above sea level  
**Vibration and Shock:** MIL-STD-810 F  
**Cooling:** forced air with integral blower  
air intake from front, air exhaust at rear

## OPTIONS

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- |                                      |  |
|--------------------------------------|--|
| A) Sample Ports *)                   | L) LAN Remote Control                                |
| B) External Dual Directional Coupler | R) RS-232C Remote Control                            |
| C) IEEE-488.2 GPIB Remote Control    | S) Internal RF Switching Unit *)                     |
| D) Front Panel RF Connectors         | U) USB Remote Control                                |
| E) RF Power Indication (digital) *)  | W) Liquid Cooling                                    |
| F) Gain Adjustment *)                | X) External Control of other Amplifiers              |
| G) Output Isolator *)                |  |
| H) DC Supply                         | *) These options may reduce output power and/or gain |
| I) 3x 208 V AC / 60 Hz               | **) Optionally other pulse width available           |
| J) 100 V AC                          |  |