

## STANDARD MODELS

| Model           | Frequency Range | Output Power<br>P <sub>P</sub> min / Duty<br>W / % | Pulse Width<br>max. **) | Gain<br>typ<br>dB | Harmonics<br>2nd / 3rd<br>dBc | Line Power<br>VA | Dimensions<br>(H, D)<br>19"-System | Weight<br>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 G  
**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                          |  |