

## 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 0910-8000 | 9.2 ... 10 GHz  | 8000 / 5   | 50 µs                   | 68 ±5             | 10 / 20                       | 2000             | 6 HU, 800 mm                       | 48           |

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         |
| PRF at 1 µs Pulswidth:         | 100 kHz (Duty e.g. 6%)                          |
| PRF at 100 µs Pulswidth:       | 1 kHz (Duty e.g. 6%)                            |
| Spurious (at P <sub>N</sub> ): | -60 dBc min. (excluding harmonics)              |
| Class of Operation:            | A-linear  |

## GENERAL

|                      |   |
|----------------------|---|
| RF Input:            | N-f, standard on rear panel   |
| RF Output:           | WR 90, standard on rear panel   |
| Mains Supply:        | 200 ... 240 V AC ±10%, 47 ... 63 Hz   |
| Elapsed Time Meter:  | via status display  |
| Ambient Temperature: | 0 ... +45 °C  |
| Storage Temperature: | -25 ... 85 °C   |
| Relative Humidity:   | up to 95% (non-condensing)  |
| Operating Altitude:  | up to 2000 m above sea level  |
| Vibration and Shock: | MIL-STD-810 G   |
| Cooling:             | forced air with integral blower<br>air intake from front, air exhaust at rear |

## OPTIONS

|                                      |   |
|--------------------------------------|---|
| A) Sample Ports *)                   | L) LAN Remote Control                   |
| B) External Dual Directional Coupler | R) RS-232C/RS-485 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 |

# TWAP 9.2 ... 10 GHz Pulsed TWT Amplifiers

G) Output Isolator \*)  
H) DC Supply  
I) 3x 208 V AC / 60 Hz  
J) 100 V AC

\*) These options may reduce output power and/or gain  
\*\*) Optionally other pulse width available