

## 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 0102-4000  | 1 ... 2 GHz     | 4000 / 4   | 50 µs                   | 71 ±5             | 6 / 10                        | 2500             | 5 HU, 630 mm                       | 60           |
| TWAP 0102-4000L | 1 ... 2 GHz     | 4000 / 4   | 50 µs                   | 71 ±5             | 6 / 10                        | 2500             | 6 HU, 800 mm                       | 45           |
| TWAP 0102-7000  | 1 ... 2 GHz     | 7000 / 4   | 50 µs                   | 73.5 ±7.5         | 6 / 10                        | 5000             | 18 HU, 800 mm                      | 150          |

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-RF:                          | P <sub>N</sub> -0.5 dB min. at VSWR 2:1         |
| Spurious (at P <sub>N</sub> ): | 100 kHz max.                                    |
| Class of Operation:            | -50 dBc typ. (excluding harmonics)              |
|                                | 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)                 |                                    |
| 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

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

# TWAP 1 ... 2 GHz Pulsed TWT Amplifiers

C) IEEE-488.2 GPIB Remote Control  
D) Front Panel RF Connectors  
E) RF Power Indication (digital) \*)  
F) Gain Adjustment \*)  
G) Output Isolator \*)  
H) DC Supply  
I) 3x 208 V AC / 60 Hz  
J) 100 V AC

S) Internal RF Switching Unit \*)  
U) USB Remote Control  
W) Liquid Cooling  
X) External Control of other Amplifiers

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