

# BPA / TWAP

## 2,4 ... 2,7 GHz

## Pulsed Amplifiers

### Standard Models

| Model         | Frequency Range | Output Power<br>P <sub>P</sub> min<br>W | Gain<br>typ<br>dB | Harmonics<br>2nd / 3rd<br>dBc | Line Power<br>W | Dimensions<br>(H, D)<br>19"-System | Weight<br>kg |
|---------------|-----------------|-----------------------------------------|-------------------|-------------------------------|-----------------|------------------------------------|--------------|
| BPA 2427-25   | 2,4 ... 2,7 GHz | 25                                      | 44 ±2.5           | 40 / 40                       | 125             | 3 HU, 350 mm                       | 15           |
| BPA 2427-50   | 2,4 ... 2,7 GHz | 50                                      | 47 ±2.5           | 40 / 40                       | 200             | 3 HU, 350 mm                       | 15           |
| BPA 2427-100  | 2,4 ... 2,7 GHz | 100                                     | 50 ±2.5           | 40 / 40                       | 350             | 3 HU, 350 mm                       | 15           |
| BPA 2427-500  | 2,4 ... 2,7 GHz | 500                                     | 57 ±2.5           | 40 / 40                       | 1000            | 4 HU, 550 mm                       | 25           |
| BPA 2427-1000 | 2,4 ... 2,7 GHz | 1000                                    | 60 ±2.5           | 40 / 40                       | 1700            | 4 HU, 550 mm                       | 30           |

### 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:            | 2:1 max. for P <sub>pk</sub> -0.5 dB;<br>infinite (with option G) |
| Puls Width:           | 120 µs                                                            |
| Duty Cycle:           | 10%                                                               |
| Risetime / Falltime:  | <200 ns                                                           |
| Pulse Droop:          | 1.0 dB                                                            |
| Spurious:             | -50 dBc typ. (excluding harmonics)                                |
| Class of Operation:   | C                                                                 |

### General:

|                      |                                                                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RF Input:            | N-f; standard on rear panel                                                                                                                                                                  |
| RF Output:           | N-f; standard on rear panel                                                                                                                                                                  |
| Ambient Temperature: | 0 ... +45 °C                                                                                                                                                                                 |
| Mains Supply:        | Line Power: <1000 W<br>100 ... 240 V AC ±10% / 47 ... 63 Hz<br>Line Power: 1000 ... 3000 W<br>200 ... 240 V AC ±10% / 47 ... 63 Hz<br>Line Power: >3000 W<br>3x 400 V AC ±10% / 47 ... 63 Hz |
| Storage Temperature: | -20 ... +85 °C                                                                                                                                                                               |
| Relative Humidity:   | up to 95% (non-condensing)                                                                                                                                                                   |
| Cooling:             | forced air with integral blower,<br>air intake from front air exhaust at rear                                                                                                                |
| Vibration and Shock: | MIL-STD-810 F                                                                                                                                                                                |
| Operating Altitude:  | up to 2000 m above sea level                                                                                                                                                                 |

### Options:

|                                      |                           |
|--------------------------------------|---------------------------|
| A) RF Monitor Outputs                | H) DC-Supply              |
| B) External Dual Directional Coupler | N) Harmonic Filter        |
| D) Front Panel RF-Connectors         | I) 3x 200 V AC / 60 Hz    |
| C) IEEE-488.2 GPIB Remote Control    | R) RS-232C Remote Control |
| E) Power Indication (digital)        | S) Gate Input             |
| G) Output Isolator                   | U) USB Remote Control     |

Specifications are subject to change without notice



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