

STANDARD MODELS

| Model | Frequency Range | Output Power P_N min / typ W | Gain min / typ dB | Harmonics 2nd / 3rd dBc | Line Power VA | Dimensions (H, D) 19"-System | Weight kg |
|----------------|-----------------|--------------------------------------|-------------------------|-------------------------------|------------------|------------------------------------|--------------|
| TWAL 2731-100E | 27 ... 31 GHz | 100 / 120 | 50 / 55 ±5 | 12 / 15 | 1250 | 6 HU, 800 mm | 35 |

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_N -0.5 dB min. at VSWR 2:1 |
| Spurious (at P_N): | -60 dBc min. (excluding harmonics) |
| Noise Figure | 20 dB max. |
| Class of Operation: | A-linear |

GENERAL

| | |
|----------------------|---|
| RF Input: | 2.92 mm-f, standard on rear panel |
| RF Output: | WR 28, standard on rear panel |
| Mains Supply: | 200 ... 240 V AC, 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: | normal laboratory environment |
| Cooling: | forced air with integral blower air intake and exhaust at rear |

OPTIONS

| | |
|--------------------------------------|---|
| A) RF Monitor Outputs *) | N) Harmonic Filter *) |
| 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 |
| G) Output Isolator *) | |

TWAL 27 ... 31 GHz TWT Amplifiers

L) Remote Control

*) These options may reduce output power and/or gain