

## 7.0 kW L-Band TWT-based Pulsed Amplifier

### VZL3530P2

#### Features:

- Rack mount
- Coaxial output
- GPIB remote
- Touchscreen
- Modular assembly
- Single phase AC power
- Local or remote control
- Wide RF bandwidth

#### Benefits:

- Versatile
- Suitable for lab environments
- Designed for the global market
- Modular assembly and built-in fault diagnostics for easy maintenance



#### Applications:

- Test and measurement systems

#### Versatile

Modular assembly allows for either lower powered multiple test applications or a single amplifier phase combined system of two VZL3530J1 amplifiers achieving 7.0 kW peak-pulsed output power.

Wide band, automatic fault recycle, user-friendly microprocessor-controlled logic with integrated computer interface, digital metering, and quiet operation suitable for laboratory environments.

An integral solid state preamplifier and IEEE interface are included as standard features.

#### Global Applications

230 VAC operation. Designed to meet International Safety Standard EN61010 and Electromagnetic Compatibility 2004/108/EC. NOT subject to ITAR export controls.

#### Worldwide Support

Backed by more than 50 years of high power experience, CPI's worldwide 24-hour customer support network includes more than 20 regional factory service centers.



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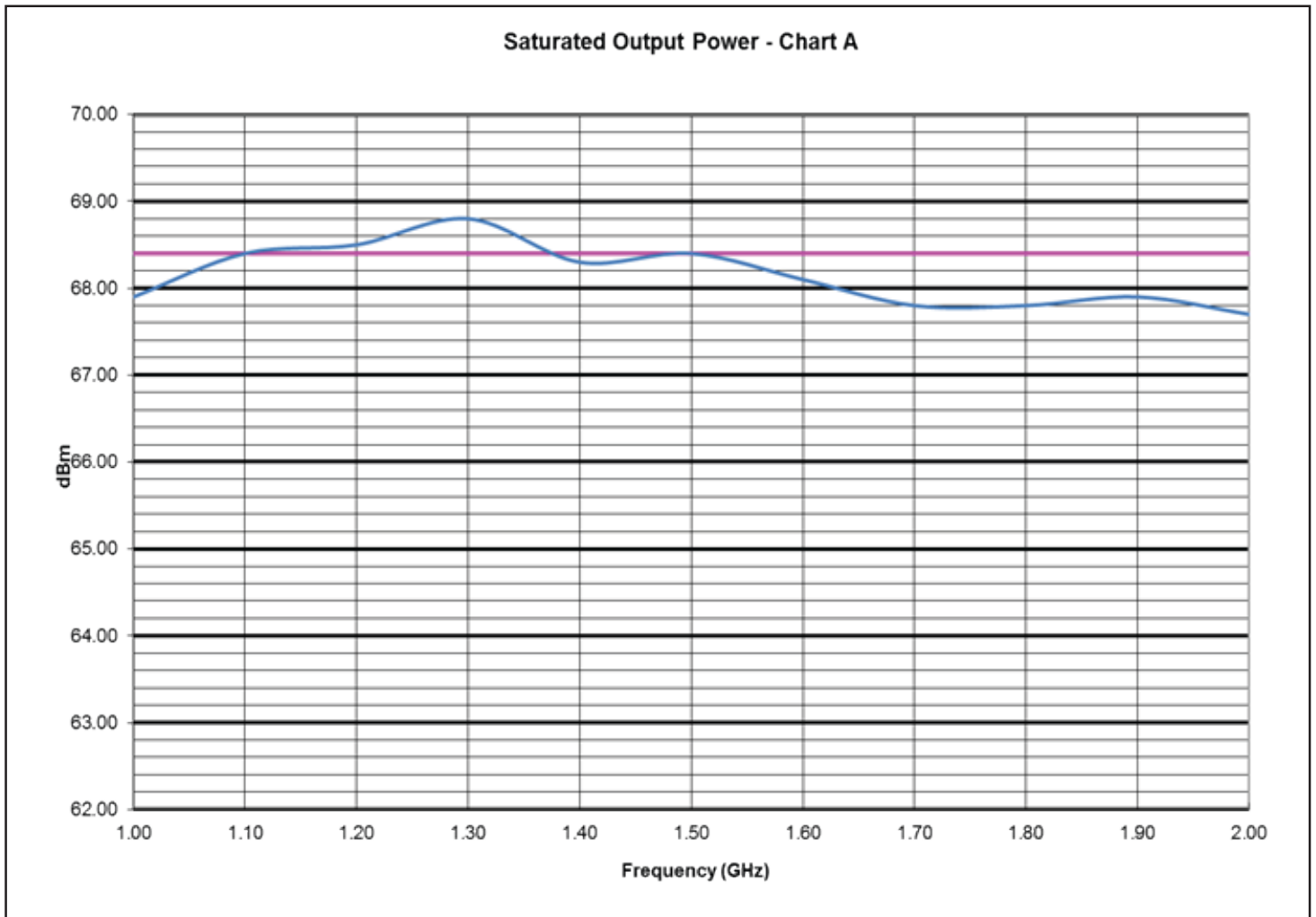
| Specifications                 |   |
|--------------------------------|---|
| <b>Frequency</b>               | 1.0 to 2.0 GHz  |
| <b>Output Power at Flange</b>  | 7000 W (nominal, in the majority of the band - see page 3 Power Plot.)  |
| <b>Gain</b>                    | 68 dB typical   |
| <b>Gain Adjustment Range</b>   | 20 dB min.  |
| <b>Input VSWR</b>              | 2.5:1 typical   |
| <b>Output VSWR</b>             | 2.5:1 typical   |
| <b>Load VSWR</b>               | 1.5:1 max. for full spec. compliance;<br>Any value for continuous operation (VSWR protection)                         |
| <b>Pulse Width</b>             | 0.1 $\mu$ to 100 $\mu$ s  |
| <b>PRF</b>                     | 50 kHz max.   |
| <b>Duty Cycle</b>              | 4% max.   |
| <b>Delay</b>                   | 400 ns typ.   |
| <b>Droop</b>                   | 0.5 dB over 50 $\mu$ s  |
| <b>NPO</b>                     | -10 dBm/MHz Beam On;<br>-110 dBm/MHz Beam Off   |
| <b>Primary Power</b>           | 220 - 240 VAC, single phase 47- 63 Hz   |
| <b>Power Consumption</b>       | 2.6 kVA typical   |
| <b>Filament Voltage</b>        | Reduction of 10% in standby for extended TWT life   |
| <b>Inrush Current</b>          | 200% max.   |
| <b>Ambient Temperature</b>     | -10° to +40°C operating<br>-40° to +70°C non-operating  |
| <b>Relative Humidity</b>       | 95% non-condensing  |
| <b>Altitude</b>                | 10,000 ft. with standard adiabatic derating of 2°C/1000 ft., operating;<br>40,000 ft., non-operating                  |
| <b>Shock and Vibration</b>     | As normally encountered in a protected laboratory environment   |
| <b>Cooling (TWT)</b>           | Forced air with integral blower<br>Rear air intake & exhaust;<br>0.10" water max. external pressure<br>loss allowable |
| <b>RF Input Connection</b>     | Type N female   |
| <b>RF Output Connection</b>    | S/C Coaxial   |
| <b>Dimensions (W x H x D)*</b> | 19 x 37 x 27.5 in. (483 x 940 x 699 mm)   |
| <b>System Weight</b>           | ≈600 lbs (273 kg)   |
| <b>Heat dissipation</b>        | ≈1600 W   |
| <b>Safety</b>                  | EN61010   |
| <b>Acoustic Noise</b>          | 65 dBA @ 3 ft. from amplifier   |

\*excluding cabinet and system accessories

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.

For information on this and other CPI products visit our webpage at [www.cpii.com/BMD](http://www.cpii.com/BMD), or contact:  
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