Plays in the Rain
Provides 400 watts of power in a rugged and compact weatherproof package, digital ready, for wideband, single- and multi-carrier satellite service in the 7.9 - 8.4 GHz frequency band. Ideal for transportable and fixed earth station applications.

Cost Effective and Efficient
Mounting at the antenna improves performance through minimized cable losses and saves cost in system design. Employs a high efficiency, dual-depressed collector helix traveling wave tube reducing operating costs.

Reliable
Designed and built to survive in extremely adverse environmental conditions and features increased cooling margin for longer life.

Simple to Operate

Easy to Maintain
Modular design and built-in fault diagnostic capability via remote monitor and control.

Global Applications

Worldwide Support
Backed by over three decades of satellite communications experience, and CPI’s worldwide 24-hour customer support network that includes sixteen regional factory service centers.

400W Outdoor TWT Amplifier
for Satellite Communications

The T04XO Series
400 Watt TWT Amplifier — high efficiency in an environmentally sealed compact package designed for outdoor operation.

811 Hansen Way
P.O. Box 51625, Palo Alto, CA 94303

tel: +1 (650) 846-3803
fax: +1 (650) 424-1744

e-mail: satcommarketing@cpii.com
www.cpii.com/satcom
Electrical (continued)

Group Delay
0.01 ns/MHz linear max.
(in any 40 MHz band) 0.002 ns/MHz 2 parabolic max.
0.5 ns pk-pk ripple max.

Primary Power
90-264 volts AC, single phase 47-63 Hz

Power Consumption
1350 W typ.
1500 W max.

Power Factor
0.95 min.

Environmental (Operating)

Ambient Temperature
-40°C to +50°C, operating in direct sunlight;
-40°C to +55°C, operating out of direct sunlight;
-40°C to +75°C non-operating

Relative Humidity
100% condensing

Altitude
10,000 ft. with standard adiabatic derating of 2°C/1000 ft., operating;
50,000 ft., non-operating

Shock and Vibration
Designed for normal transportation environment per Section 514.4 MIL-STD-810E. Designed to withstand 20G at 11 ms (1/2 sine pulse) in non-operating configuration.

Acoustic Noise
65 dBA @ 3 ft. from amplifier

Heat Dissipation
1100 W max.

Mechanical

Cooling (TWT)
Forced air with integral blower

RF Input Connection
Type N female

RF Output Connection
CPR-112 G waveguide flange, grooved with UNC 2B 10-32 threaded holes

RF Output Monitor
Type N female

Dimensions (W x H x D)
10.25 x 10.5 x 20.5 in. (260 x 267 x 521 mm)

Weight
55 lbs (25.0 kg) with no options, max.

OPTIONS:

• Remote Control Panel
• Integrated 1:1 Switch Control and Drive
• Redundant and Power Combined Subsystems
• SSIPA with Variable Attenuator (provides typical RF Level Adjust Range of 0 to 30 dB)
• Integral Linearizer (Requires SSIPA option)
• L-Band Block Upconverter (BUC --- requires SSIPA --- SEE NOTE below)
• Forward Power Detection Over CIF
• Ethernet Interface

Note: This data sheet does not provide specifications for when the BUC option is included. Please refer to TD-137 or contact CPI for details.

For more detailed information, please refer to the corresponding CPI Technical Description.

Note: Specifications may change without notice as a result of additional data or product refinement.
Please contact CPI before using this information for system design.

MKT 129, ISSUE 9 05/10 PDF