



### TCCX Series Tetrode Tube Amplifiers

10 KHz – 220 MHz • 500 Wattsto 12000 Watts

Instruments for Industry, TCCX-Series Amplifiers provide outstanding RF performance. Our “TCCX-Series” products are a mature design but incorporate the latest features with respect to control and monitoring. These amplifiers have field proven reliability and unsurpassed performance as best of the breed. They were specifically designed for laboratory testing applications into the worst mismatch conditions. These products are available in a wide range of power levels from 500 watts to 12000 watts in the 10KHz-220MHz frequency range.

IFI Tetrode Tube amplifiers are very conservatively designed to operate below maximum ratings for ruggedness and long term reliability. The Amplifier system integrates a Solid State Power supply to provide reliable brute-power performance at frequencies up to 220MHz.

Our RF power amplifiers feature modular heavy duty construction. This concept of modular design minimizes internally produced EMI signal leakage and provides easy access for field service and rapid turnaround at depot level repair facilities.

From the ground up, the “TCCX-SERIES” products are structurally engineered to withstand operation into complete mismatch conditions without folding back. A product and design built to last!

#### IFI RF Power Amplifier Features:

- Instantaneous Broadband Frequency range
- Modular Design Construction
- Rugged Construction & High Reliability
- Backlit LCD Display
- Integrated Force Air Cooling
- Self-diagnostic circuitry
- IEEE-488 Interface, RS232 & Ethernet
- Tetrode Tube Design
- Solid State Power Supply



#### Models & General Specifications:

Model Number	Frequency Range	Rated Power (watts minimum)		P1dB Power (watts minimum)	Gain (dB min)	Mains (kVA)	Weight (Pounds)	Size (Inches)
TCCX500	10KHz-220 MHz	500		400	57	4.0	600	Rack Integrated
TCCX1000	10KHz-220 MHz	1000		800	60	8.0	750	Rack Integrated
TCCX2000	10KHz-200 MHz	2000		1500	63	15.0	1000	Rack Integrated
TCCX2200	10KHz-200 MHz	2200		1600	64	16.0	1200	Rack Integrated
TCCX2500	10KHz-200 MHz	2500		1800	64	20.0	1250	Rack Integrated
TCCX3500	10KHz-100 MHz	3500		2000	66	25.0	1600	Rack Integrated
Pulse Model Number		Rated Pulse Power	Rated CW Power					
TCCX500P	10KHz-220 MHz	1500	500	400	57	4.0	600	Rack Integrated
TCCX1000P	10KHz-220 MHz	3000	1000	800	60	8.0	750	Rack Integrated
TCCX2000P	10KHz-200 MHz	6000	2000	1500	63	15.0	1000	Rack Integrated
TCCX2200P	10KHz-200 MHz	6500	2200	1600	64	16.0	1200	Rack Integrated
TCCX2200ULP	10KHz-200 MHz	12000	2200	1600	64	16.0	1600	Rack Integrated
TCCX2500P	10KHz-200 MHz	7500	2500	1800	64	20.0	1250	Rack Integrated



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Standard Features for IFI TCCX Series Tetrode Tube Amplifiers

Table with 2 columns: Standard Features and Description. Features include VSWR protection, GPIB control, RF sample port, gain control, and safety interlocks.

IFI TCCX Series Tetrode Tube Amplifier Specifications

Table with 2 columns: Specification and Value. Includes frequency range, output power, gain, impedance, connectors, VSWR, operating temperature, humidity, altitude, cooling system, modulation, configuration, spurious outputs, and harmonics.

Standard Prime Powers:

Table listing standard prime powers: 120/208 ±10% 50/60 Hz and 200/220/230/240VAC ±10% 50/60 Hz, with a note on special prime powers.

Some Available Options for IFI TCCX Series Tetrode Tube Amplifiers

Table listing options: Option 110-1E (GPIB/Ethernet), Option 110-2 (GPIB/RS 422), Option 110-3 (GPIB/RS 485), Option 118A (RF Input/Output), and Option 118B (RF Input/Output).

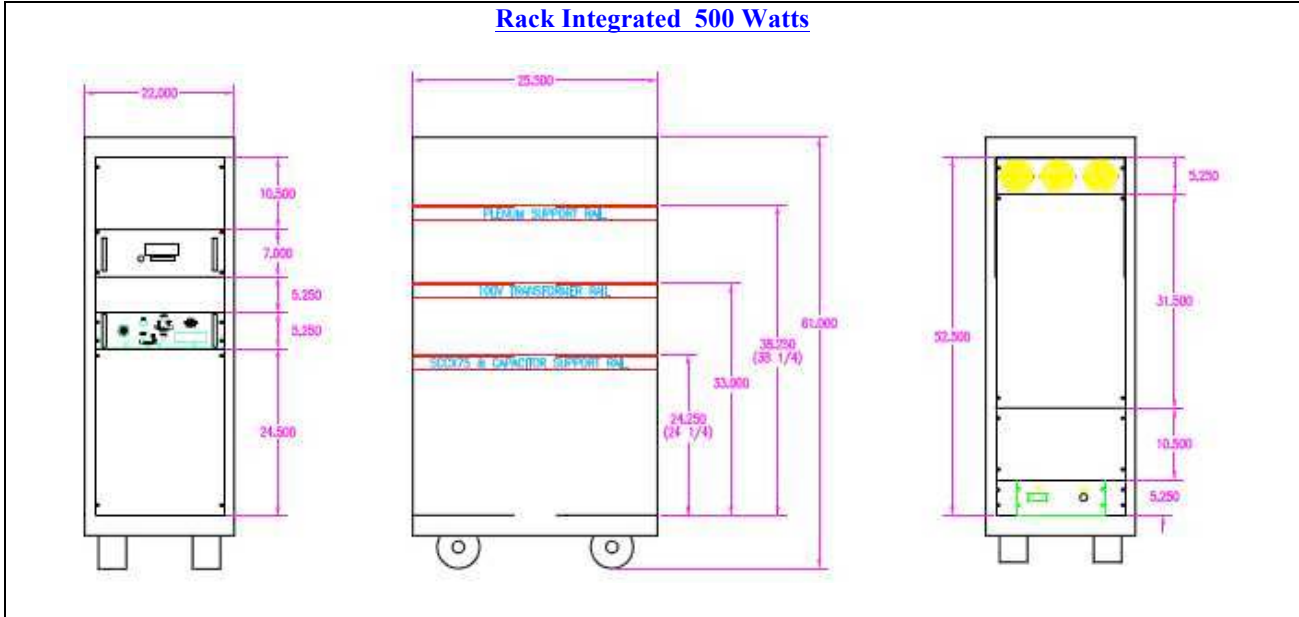


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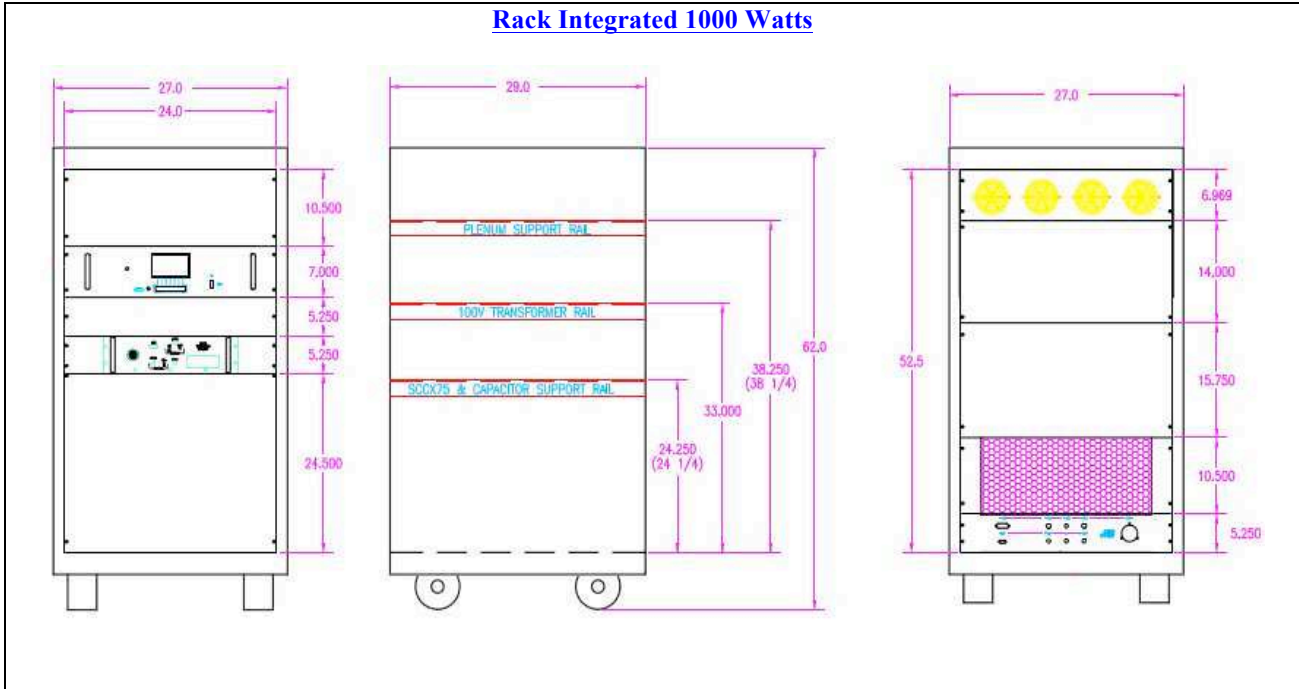
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#### Rack Outline Configurations:

**Rack Integrated 500 Watts**



**Rack Integrated 1000 Watts**





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