

# Beijing Phamitech Electronics

## 4CX15000A

### Power Tetrode

4CX15,000A is forced air cooled, metal / ceramic high power tetrode. Because of it's special structure, high audio frequency working efficiency and low loss, it is mainly used as linear amplifier and AF power amplifier or oscillator. Max anode dissipation: 15KW, rated working frequency: 110MHZ, Max frequency: 225MHZ.

### General Characteristics

Filament voltage	6.3	V
Filament current	160	A
Amplification factor	4.5	
Interelectrode capacitance (Grounded cathode)		
Input	160	pF
Output	24.5	pF
Transfer	1.5	pF
Interelectrode capacitance(Grounded grid1, grid2)		
Input	67	pF
Output	25.5	pF
Transfer	0.2	pF
Operating frequency max	110	MHZ
Height, max	235	mm
Diameter, max	191.5	mm
Net weight	5.8	kg
Operating position		Vertical
Cooling		Forced air
Max temperature on tube surface and seal	250	°C

### Maximum Ratings

#### Class AB1 RF linear amplifier, grid driven

Anode voltage	10	KV
Screen grid voltage	2.0	Kv
Grid voltage	-1.5	KV
Anode current	6.0	A
Anode dissipation	15	KW
Screen grid dissipation	450	W
Grid dissipation	200	W

### Typical operation

#### AF amplifier or modulator

Anode voltage	7.5	10.0	KV
Screen grid voltage	1.5	1.5	kV

Grid voltage	-350	-370	V
Anode current, zero signal	1.0	1.0	A
One tone anode current	4.0	4.25	A
One tone grid 2 current	170	150	mA
Peak RF grid 1 voltage	330	340	V
Anode dissipation	12.0	14.0	kW
One-tone anode output power	20.8	28.5	kW
Load resistance	865	1260	Ω

#### Radio frequency power amplifier or oscillator, Class C telegraphy or FM

Anode voltage	7.5	10.0	KV
Screen grid voltage	750	750	V
Grid voltage	-510	-550	V
Anode current	4.65	4.55	A
Screen grid current	590	540	mA
Grid voltage	300	270	mV
Peak RF grid voltage	730	790	V
Driving power	220	220	W
Anode dissipation	8.1	9.0	kW
Anode Output power	26.7	36.5	kW

