

# 3CX15,000H3

## Radial-Beam Triode



The Penta 3CX15,000H3 is an air-cooled, ceramic-metal power triode designed primarily for use in industrial radio-frequency heating services. Its air-cooled anode is rated at 15 kilowatts of plate dissipation.

Full ratings apply up to 90 megacycles. Plentiful reserve emission is available from its one watt filament. The grid structure is rated at 500 watts making this tube an excellent choice for severe applications.

### ELECTRICAL

Filament: Thoriated-Tungsten	<b>Min.</b>	<b>Nom.</b>	<b>Max.</b>	
Voltage .....		6.3		Volts
Current .....	152		172	Amps
Amplification Factor .....		20		
Interelectrode Capacitances, Grounded Cathode Connection				
Grid-Filament .....	50		60	$\mu\text{f}$
Plate-Filament .....	1.3		1.6	$\mu\text{f}$
Grid-Plate .....	30		38	$\mu\text{f}$
Frequency for Maximum Ratings .....			90	MHz

### MECHANICAL

Base .....	See Outline
Operating Position .....	Vertical, base up or down
Cooling .....	Forced Air
Maximum Operating Temperature .....	250 °C
Maximum Dimensions	
Height .....	See Outline
Diameter .....	See Outline
Net Weight .....	13 Pounds

(Revised 09/10/93)



## P E N T A   L A B O R A T O R I E S

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ELECTRON TUBES FOR INDUSTRY



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## RF INDUSTRIAL OSCILLATOR Class-C (Filtered DC Power Supply)

### MAXIMUM RATING

DC Plate Voltage .....	12,000	Volts
DC Plate Current .....	6.0	Amps
DC Grid Voltage .....	-1000	Volts
DC Grid Current .....	1.0	Amp
Plate Input Power .....	60	kW
Plate Dissipation .....	15	kW

### TYPICAL OPERATION \*

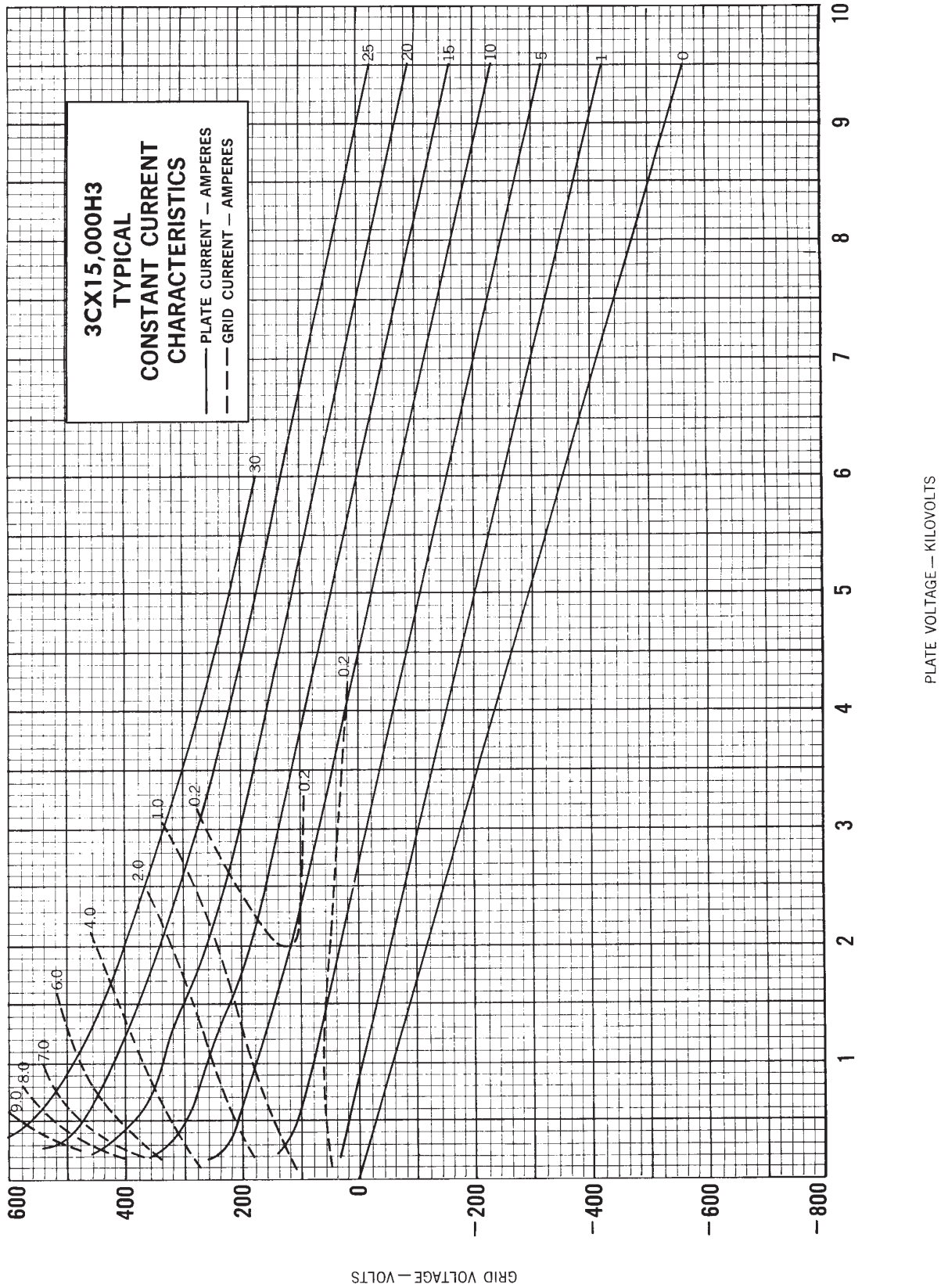
DC Plate Voltage .....	7000	10,000	Volts
DC Plate Current .....	6.0	5.0	Amps
DC Grid Voltage .....	-600	-800	Volts
DC Grid Current .....	660	542	mAmps
Peak Positive Grid Voltage .....	440	400	Volts
Driving Power .....	660	650	Watts
Plate Input Power .....	42	50	kW
Plate Dissipation .....	12	8.8	kW
Plate Output Power .....	30	41.2	kW
Approximate Load Impedance .....	600	1025	Ohms

\* Loaded Conditions



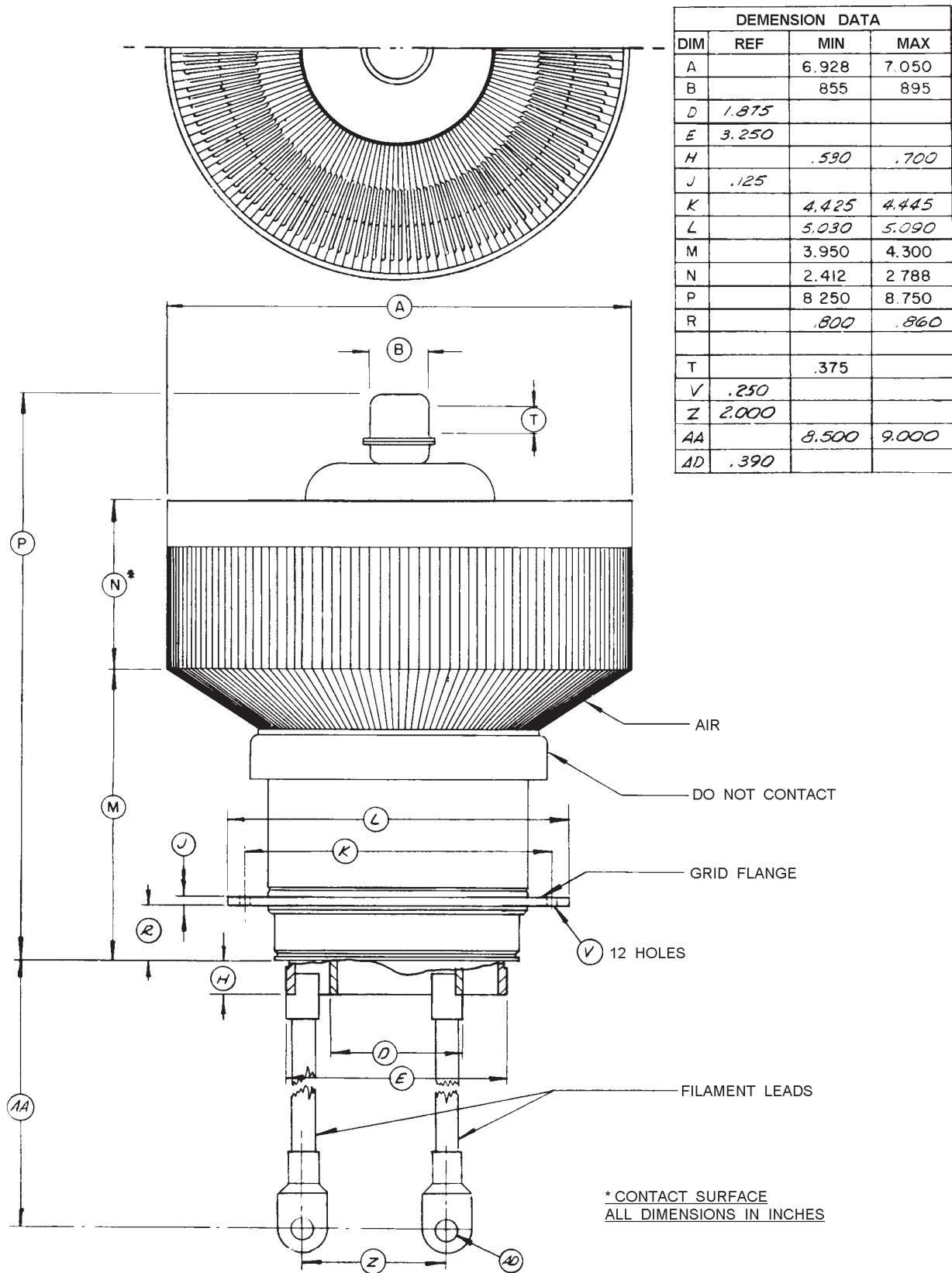
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\* CONTACT SURFACE  
ALL DIMENSIONS IN INCHES