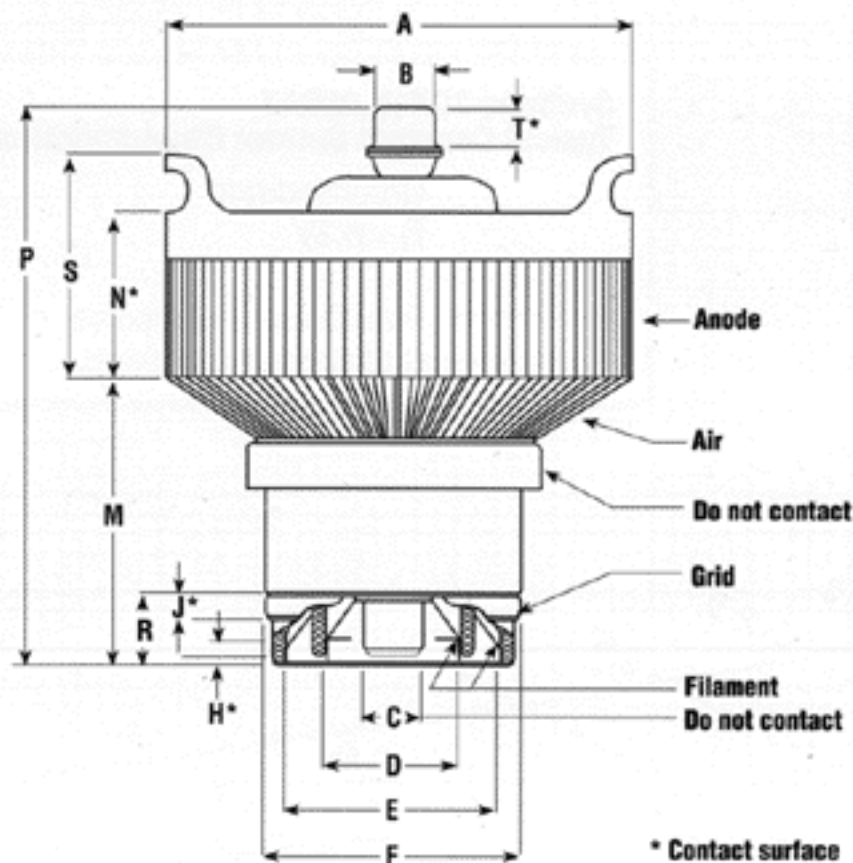


3CX15,000A7 Outline Drawing



Dimensional Data				
Dim.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	175.97	179.07	6.928	7.050
B	21.72	22.73	0.855	0.895
C	15.24	19.30	0.720	0.600
D	48.16	49.17	1.896	1.936
E	79.58	80.59	3.133	3.173
F	96.32	97.33	3.792	3.832
H	4.78	-	0.188	-
J	4.78	-	0.188	-
M	100.33	109.22	3.950	4.300
N	61.26	70.82	2.412	2.788
P	209.55	222.25	8.250	8.750
R	25.04	26.67	0.986	1.050
S	86.66	96.22	3.412	3.788
T	9.53	-	0.375	-

Electrical Application

Filament Operation The rated filament voltage for the 3CX15,000A7 is 6.3 Volts. Filament voltage, as measured at the socket, should be maintained within 5% of this value to obtain maximum tube life.

Input Circuit A resonant tank circuit is recommended for grounded-grid operation. In a single-ended circuit the loaded "Q" should be at least 3. This technique increases linearity and output power.

Mechanical Application

Mounting The 3CX15,000A7 must be mounted with its axis vertical. The base of the tube may be up or down.

Cooling Sufficient forced-air circulation must be provided to keep the temperature of the anode core and the temperatures of the ceramic/metal seals below 225°C. Airflow requirements to maintain these temperatures below 225°C with an inlet-air temperature of 50°C are tabulated. At frequencies above 30 MHz or at higher inlet-air temperatures, more airflow will be required.

* Anode Dissipation Watts	Sea Level		10,000 Feet	
	Air Flow CFM	Pressure Drop Inches of Water	Air Flow CFM	Pressure Drop Inches of Water
5000	242	0.8	350	1.3
10,000	475	2.8	690	4.1
15,000	840	6.2	1220	9.7

* Because the power dissipated by the filament represents about 1000 watts and because grid dissipation can, under some conditions, represent another 500 watts, allowance has been made in preparing this tabulation for an additional 1500 watts.