

UHF operation

The 4CX350AC is designed for use in the UHF region. UHF operation should be conducted with heavy plate loading, minimum bias and the lowest driving power consistent with satisfactory performance. It is often preferable to operate at a sacrifice in efficiency to obtain increased tube life.

Some of the added circuit loss observed in UHF operation is in the base insulator of the tube. It is sometimes necessary to use more than the recommended minimum air-flow rates to maintain safe operating base temperatures at UHF.

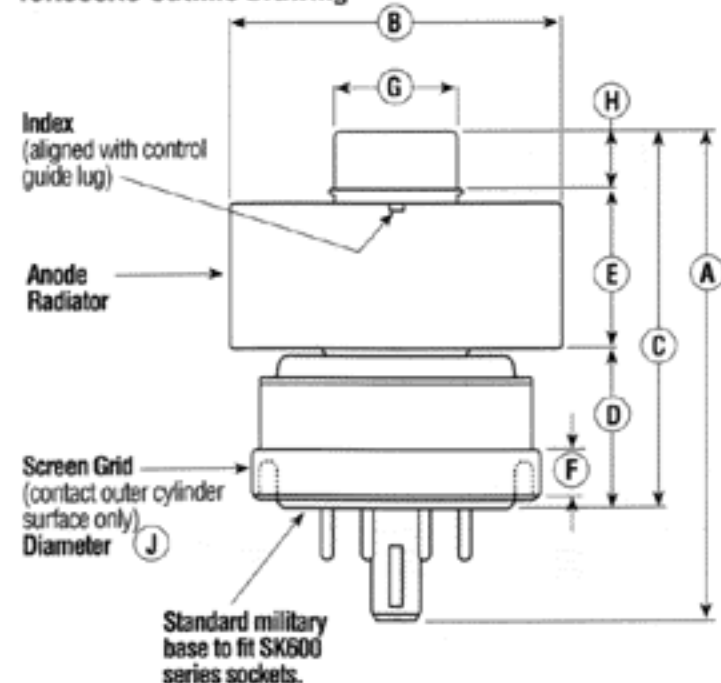
Mechanical Mounting

The 4CX350AC may be operated in any position. An Eimac or Johnson Air-System Socket, SK-600 series, or a socket having equivalent characteristics, is recommended. Sockets are available with or without built-in screen by-pass capacitors and may be obtained with either grounded or ungrounded cathode terminals.

Cooling

Sufficient cooling must be provided for the anode, base seals and body seals to maintain operating temperatures below the rated maximum values. Air requirements to maintain seal temperatures at 225°C on 50°C ambient air are shown in the table at upper right. These requirements apply when an air system socket is used with an anode chimney and when air-flow is in the base-to-anode direction.

4CX350AC Outline Drawing



Minimum Cooling Air-Flow Requirements

Plate dissipation (watts)	Sea Level		10,000 feet	
	Air flow (C FM)	Pressure drop (Inches of water)	Air Flow (C FM)	Pressure Drop (Inches of water)
250	5.3	0.6	7.7	0.85
300	6.5	0.9	9.5	1.25
350	7.8	1.2	12.0	1.9

Vibration

The Svetlana 4CX350AC is capable of satisfactorily withstanding shock and vibration typically encountered in military applications. The tubes will function well in mobile airborne and mobile truck installations and similar environments.

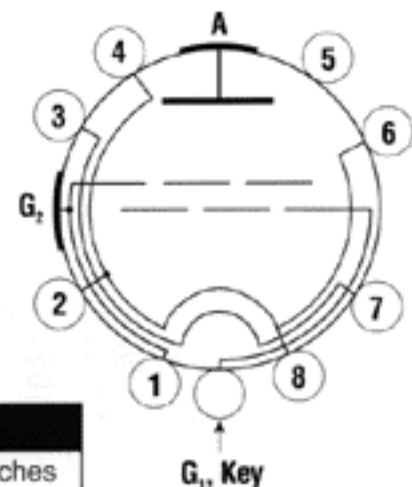
Special applications

If it is desirable to operate this tube under conditions widely different from those given in this publication, contact any Svetlana Electron Device location (listed on the back panel).

4CX350AC Connection Diagram

Connection	Electrode
1	Screen Grid
2, 4, 6, 8	Cathode
3,7	Heater
5	Internal connection (do not use for external connection)
G ₂ (coaxial ring)	Screen Grid
G ₁ (key)	Control Grid
A (external)	Anode

Bottom View



Dimensional Data

Dim.	Millimeters	Inches
A	64	2.52
B	41.6	1.64
C	40	1.57
D	21	0.83
E	19	0.75
F	4	0.16
G	14	0.55
H	5	0.20
J	36	1.42