



Half-Wave High-Vacuum Rectifier

Code: 705A (CV3587) ←

This rectifier is directly equivalent to the U.S.A. 705A type.

CATHODE

Thoriated tungsten filament with centre tap

Voltage (full filament) 5 V

Nominal current (per half filament) 5 A

MECHANICAL DATA

Maximum overall length 128.6 mm

Maximum diameter 65.1 mm

Top cap Tungsten lead

Base B4A

Socket Special

Net weight 90 g

MAXIMUM RATINGS

Maximum peak inverse voltage 30 kV

Maximum peak anode current at 30 kV P.I.V. 0.4 A

Maximum average anode current at 30 kV P.I.V. 0.1 A

Maximum peak anode current at 15 kV P.I.V. 0.6 A

Maximum average anode current at 15 kV P.I.V. 0.15 A

Maximum anode dissipation 60 W

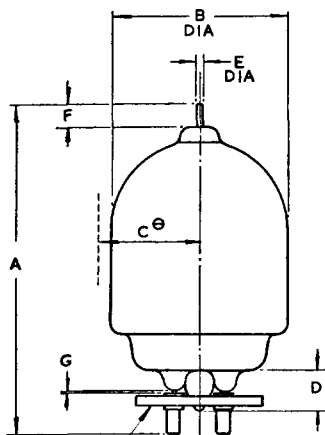
TYPICAL OPERATION (for ideal choke-input filter)

Circuit	No. of Valves	Maximum D.C. output voltage	Maximum D.C. output current
Bi-phase half wave	2	9 kV	0.2 A
Full wave	4	18 kV	0.2 A

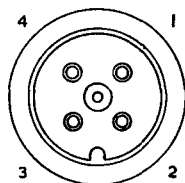
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B 4 A BASE

**BASING**

1. FILAMENT
 2. FILAMENT C.T.
 3. FILAMENT
 4. NO CONNEXION
 T.L. ANODE

DIM	MILLIMETRES	INCHES	DIM	MILLIMETRES	INCHES
A	122.25 MIN	4.813 MIN	E	1.40 MIN	0.055 MIN
	128.60 MAX	5.063 MAX		1.52 MAX	0.060 MAX
B	65.1 MAX	2 ⁹ / ₁₆ MAX	F	7.75 MIN	0.305 MIN
Θ C	35.71 MAX	1.406 MAX		11.30 MAX	0.445 MAX
D	12.7 MAX	1/2 MAX	G	0.38 MIN	0.015 MIN
				2.39 MAX	0.094 MAX

Θ DENOTES :- ECCENTRICITY WITH RESPECT TO ϕ OF BASENOTE:-BASIC DIMENSIONS ARE INCHES