Air-Blast-Cooled R.F. Triode

3J/192E

CATHODE.

Thoriated tungsten filament		
Voltage	5	V
Nominal current	66	A
Peak emission	12	A

RATING.

Amplification factor (Measured at Va 6kV, Ia 0.9A)	17	
Impedance (Measured at Va 6kV, Ia 0.9A)	1,500	Ω

DIRECT INTER-ELECTRODE CAPACITIES.

Grid to anode	35	pF
Grid to filament	27	pF
Anode to filament	1.5	pF

COOLING.

Air blast for anode dissipation of 4.5 kW		
Volume of air at a pressure of 1.5 inches of water	350	cu. ft./min.
Maximum radiator core temperature	130°	C.
Maximum ambient temperature	45°	C.

DIMENSIONS.

Maximum overall length	240	mm.
Maximum diameter over cooler	150	mm.

MAXIMUM RATINGS.

Maximum direct anode voltage	7	kV
Maximum direct anode current	2	A
Maximum anode dissipation	4.5	kW
Maximum grid dissipation	350	W
Maximum frequency for above ratings	22	Mc/s

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TYPICAL OPERATING CONDITIONS
RADIO FREQUENCY

Class B Telephony Modulated Carrier applied to Grid.
(Carrier conditions per valve for use with 100% modulation).

Direct anode voltage	5	kV
Grid bias	—300	V
Direct anode current	1	A
Peak R.F. grid voltage at crest of modulation cycle	750	V
Power output	1.6	kW approx.

Class C Power Amplifier. Anode subject to modulation.
(Carrier conditions per valve for use with 100% modulation).

Direct anode voltage	5	kV
Grid bias	—750	V
Direct anode current	1.25	A
Peak R.F. grid voltage	1,170	V
Power output	4.4	kW approx.

Class C Power Amplifier or Oscillator, unmodulated.

Direct anode voltage	7	kV
Grid bias	—650	V
Direct anode current	2	A
Peak R.F. grid voltage	1,100	V
*Direct grid current	0.35	A approx.
Power output	10	kW

* Subject to wide variation depending upon the impedance of the load circuit.

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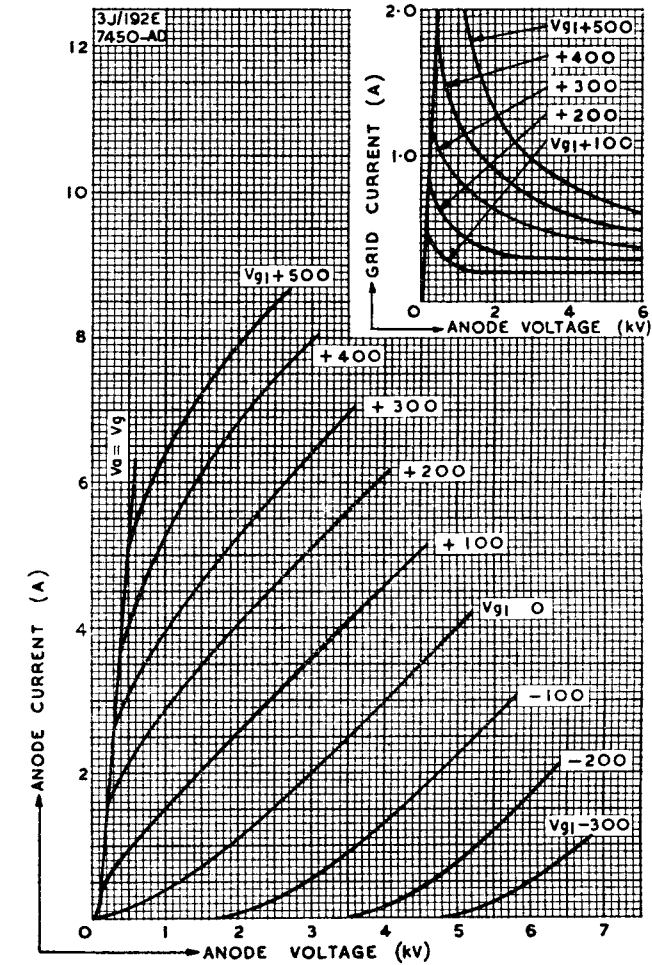

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