



Tetrode Type CR 176

(HF POWER AMPLIFIER)

General. The CR 176 is a forced-air-cooled power tetrode. The anode, which forms part of the valve envelope, is fitted into a radiator for forced air-cooling. The screen grid is mounted from the metal header to provide efficient shielding and a low inductance connection.

The external grid and filament seals must not exceed a temperature of 140°C; cooling is not usually necessary to maintain these conditions.

APPROXIMATE DATA

V_f	5	V
I_f	64	A
$I_{e(pk)}$	10	A
V_a	7.5	kV
p_a	3.5	kW
V_{g2}	1.5	kV
p_{g2}	200	W
p_{g1}	25	W
μ_{g1-g2}	taken at V_a 3 kV	4.4 mA/V
g_m		
f (at full ratings)	1 A	V_{g2} 1.5 kV
C_{in}	30	Mc/s
C_{out}	40	pF
C_{a-g1}	14	pF
	0.4	pF

OPERATING NOTES

Thoriated Tungsten Filament. The valve must be operated at the stated filament voltage.

The filament current must not exceed 160 A, even momentarily, at any time.



