

14KP4

The 14KP4 is a 14" Tetrode Television Tube with a rectangular face, and utilizes magnetic focus, magnetic deflection. It has a Type P4 screen, and requires an ion trap.

Physical Data

Overall Length	426 ± 10 mm
Overall Bulb Face Dimensions	318.5 ± 3 x 247 ± 3 mm
External Neck Diameter	36.5 ± 1.6 mm
Base Type	Duodecal, 7-pin
Side Contact	Small Cap
Deflection Angle for Diagonal of 319 mm	70°

Inter-electrode Capacitances

Grid/Rest	6 pF
Cathode/Rest	5 pF
External Coating/Anode No. 2	500/2,000 uuf

Heater Data

Heater Voltage	6.3 V
Heater Current	0.3 A

Electrode Connections

Pin 1	Heater
Pin 2	Grid
Pin 6	No connection
Pin 7	No connection
Pin 10	Anode 1
Pin 11	Cathode
Pin 12	Heater
Side Contact	Anode 2, internal wall coating.

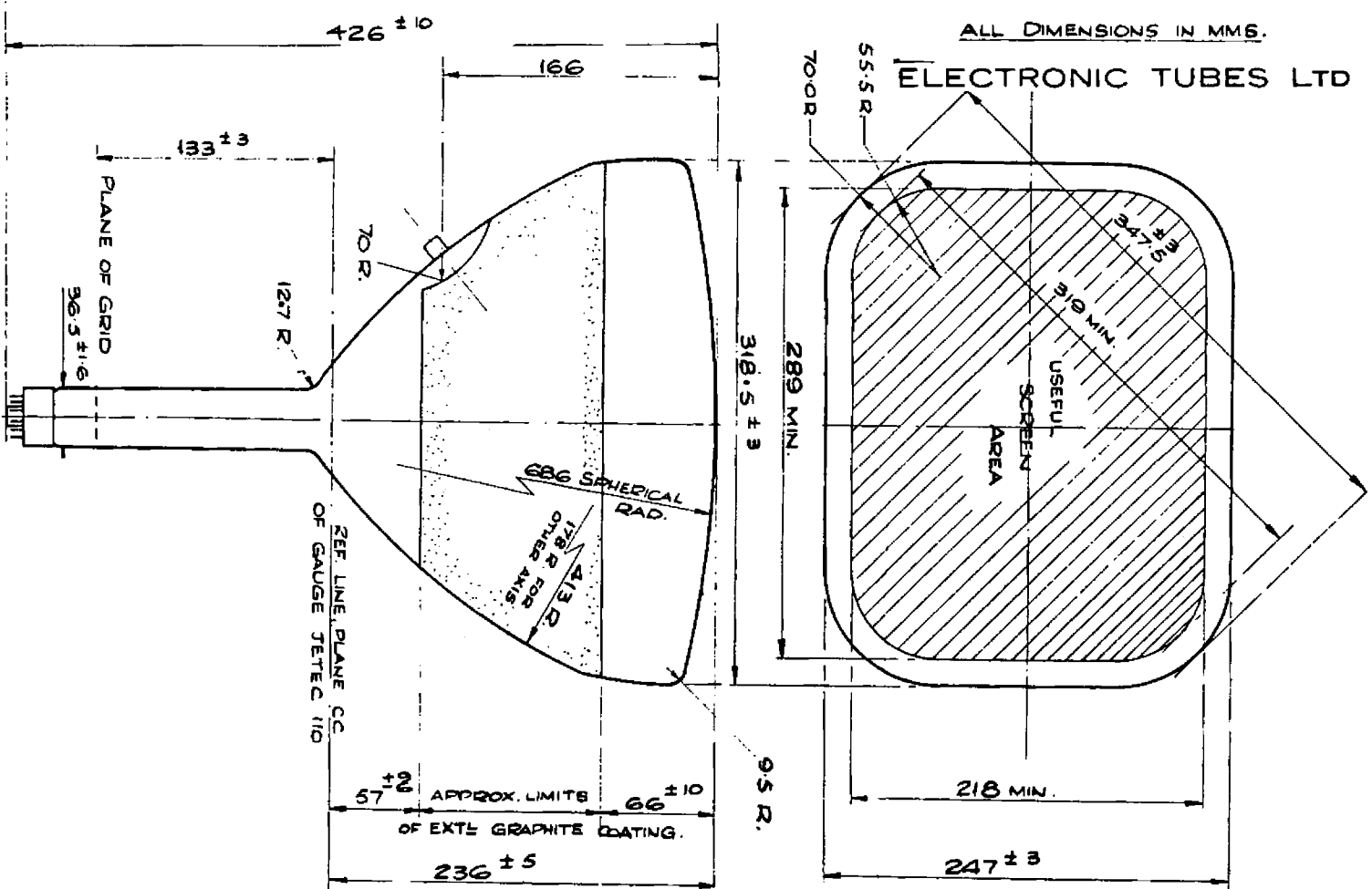
Normal Operating Conditions

Anode 1 Voltage	250 V
Anode 2 Voltage	9,000 V
Grid Drive for Peak Brightness	40 max. 30 nominal
Grid Voltage for Beam Cut-off	-60 max. -40 nominal
Peak Brightness (290 x 218 sq.mm. raster)	22 foot-lamberts min.
Cathode Current at Peak Brightness	0.225 mA
Approx. Field Strength for Focus	320 Gauss

Limiting Values (Design Centre)

Max. Anode 1 Voltage	0.038 x V _{a2} Volts
Max. Anode 2 Voltage	10,000 Volts
Grid Insulation	1 megohm (min.)
Heater/Cathode Voltage	150 V max. (Heater negative to cathode)
Heater/Cathode Insulation	0.25 megohm min.

The side contact is within ± 30° of the plane through pin position 6.



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