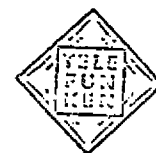


Triode



Mechanical Data

Coated unipotential cathode

Outline drawing 6-2 Bulb T 6 1/2

Base E 9-1 9-pin

Maximum diameter 7/8 "

Maximum overall length 2-3/16 "

Maximum seated height 1-15/16 "

Pin connections

Basing

94G

Pin 1 - Plate

Pin 6 - Grid

Pin 2 - Grid

Pin 7 - Cathode

Pin 3 - Cathode

Pin 8 - Grid

Pin 4 - Heater

Pin 9 - Plate

Pin 5 - Heater

Mounting position

Any

Electrical Data

Capacitances

With Shield⁺⁾

Without Shield

Grid to plate (g to p) 3.1 2.0 μ f

Plate to grid and heater (p to g + h) --- 2.1 μ f

Plate to cathode (p to k) --- 0.2 μ f

Grid to cathode (g to k) --- 3.6 μ f

Cathode to grid and heater (k to g + h) --- 6.6 μ f

Grid to heater (g to h) --- <0.3 μ f

Grid to cathode and heater (g to h + k) 4.2 3.9 μ f

Plate to cathode and heater (p to h + k) 0.25 0.3 μ f

+) External Shield $\frac{15}{16}$ " Dia, Length 2"

Ratings

Heater voltage (ac or dc) 6.3 volts

Maximum heater-cathode voltage

Heater negative with respect to cathode 100 volts

Heater positive with respect to cathode 100 volts

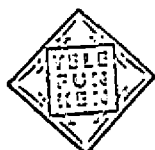
Maximum resistance cathode-heater	20,000	ohms
Maximum plate voltage	220	volts
Maximum plate dissipation	2.2	watts
Maximum cathode current	20	ma
Maximum grid circuit resistance	1.0	megohm
Maximum negative grid voltage	50	volts
Maximum frequency (UHF amplification)	800	Mc

Typical operating conditions and characteristics, grounded-grid amplifier

Heater voltage	6.3	volts
Heater current	170	ma
Plate voltage	175	volts
Grid voltage	- 1.5	volts
Plate current	12	ma
Transconductance	14,000	μ mos
Amplification factor	68	
Equivalent noise resistance	230	ohms
Space-charge capacitance (grounded cathode)	2.0	μ pf

Characteristics at 100 Mc

Phase of transconductance	- 7°	
Additional grid-noise-conductance	0.5	mmhos



T e l e f u n k e n G.m.b.H., R ö h r e n w e r k U l m

U l m (D o n a u) , G e r m a n y