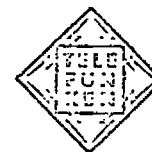


## TELEFUNKEN

G . M . S . H

Triode

Mechanical Data

Coated unipotential cathode

Outline drawing 6-2 Bulb T 6 1/2

Base E 9-1 small button noval 9-pin

Maximum diameter 7/8 "

Maximum overall length 2-5/16 "

Maximum seated height 1-15/16 "

Pin connections Basing 9 4 G

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 DataCapacitancesWith Shield<sup>+</sup>Without Shield

Grid to plate (g to p)	3.1	2.0	μf
Plate to grid and heater (p to g + h)	---	2.1	μf
Plate to cathode (p to k)	---	0.2	μf
Grid to cathode (g to k)	---	3.6	μf
Cathode to grid and heater (k to g + h)	---	6.6	μf
Grid to heater (g to h)	---	< 0.3	μf
Grid to cathode and heater (g to h + k)	4.2	3.9	μf
Plate to cathode and heater (p to h + k)	0.25	0.3	μf

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

Ratings

Heater current (ac or dc)	300	ma
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 current	300	ma
Heater voltage	3.8	volts
Plate voltage	175	volts
Grid voltage	- 1.5	volts
Plate current	12	ma
Transconductance	14,000	$\mu$ hos
Amplification factor	68	
Equivalent noise resistance	230	ohms
Space-charge capacitance (grouded cathode)	2.0	$\mu$ f

Characteristics at 100 Mc

Phase of transconductance	- 7°	
Additional 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