TELEFUNKEN

G · M · B · H

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 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 Data

Capacitances	With Shield+)	Without Shield	
Grid to plate (g to p)	3.1	2.0	µµf
Plate to grid and heater (p to g + h)	---	2.1	µµf
Plate to cathode (p to k)	---	0.2	µµf
Grid to cathode (g to k)	---	3.6	µµf
Cathode to grid and heater (k to g + h)	---	6.6	µµf
Grid to heater (g to h)	---	$<$0.3	µµf
Grid to cathode and heater (g to h + k)	4.2	3.9	µµf
Plate to cathode and heater (p to h + k)	0.25	0.3	µµf

+) 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	µmhos
Amplification factor	68	
Equivalent noise resistance	230	ohms
Space-charge capacitance (grounded cathode)	2.0	µµf

Characteristics at 100 Mc

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