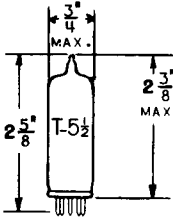


TUNG-SOL

PENTODE
MINIATURE TYPE



GLASS BULB

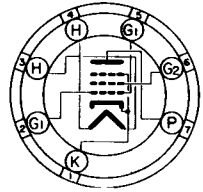
COATED UNIPOTENTIAL CATHODE

HEATER

25 VOLTS 0.3 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON
7 PIN BASE

TCV

THE 25CA5 IS A BEAM PENTODE USING THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED PRIMARILY FOR USE IN THE AUDIO FREQUENCY POWER OUTPUT STAGE OF TELEVISION AND RADIO RECEIVERS. IT FEATURES HIGH POWER SENSITIVITY AT RELATIVELY LOW PLATE AND SCREEN VOLTAGES. EXCEPT FOR HEATER RATINGS IT IS IDENTICAL TO THE 6CA5.

DIRECT INTERELECTRODE CAPACITANCES
*WITH NO EXTERNAL SHIELD

GRID #1 TO PLATE	0.5	μf
INPUT	15	μf
OUTPUT	9	μf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	25	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER POSITIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
DC	100	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
MAXIMUM PLATE VOLTAGE	130	VOLTS
MAXIMUM GRID #2 VOLTAGE	130	VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION	5.0	WATTS
MAXIMUM GRID #2 DISSIPATION	1.4	WATTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE:		
FIXED BIAS	0.1	MEGOHM
CATHODE BIAS	0.5	MEGOHM
BULB TEMPERATURE AT HOTTEST POINT	180	°C

CONTINUED ON FOLLOWING PAGE

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

HEATER VOLTAGE	25	VOLTS
HEATER CURRENT	0.3	AMP.
PLATE VOLTAGE	110	125
GRID #2 VOLTAGE	110	125
GRID #1 VOLTAGE	-4.0	-4.5
PEAK AF GRID #1 VOLTAGE	4.0	4.5
PLATE RESISTANCE (APPROX.)	16 000	15 000
TRANSCONDUCTANCE	8 100	9 200
ZERO-SIGNAL PLATE CURRENT	32	37
MAXIMUM SIGNAL PLATE CURRENT (APPROX.)	31	36
ZERO-SIGNAL GRID #2 CURRENT	3.5	4.0
MAXIMUM SIGNAL GRID #2 CURRENT (APPROX.)	7.5	11
LOAD RESISTANCE	3 500	4 500
TOTAL HARMONIC DISTORTION (APPROX.)	5	6
MAXIMUM SIGNAL POWER OUTPUT	1.1	1.5

