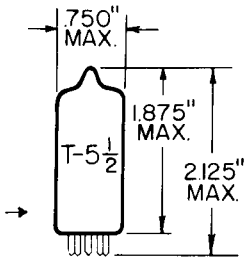
TUNG-SOL



GLASS BULB
MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2

TETRODE

MINIATURE TYPE

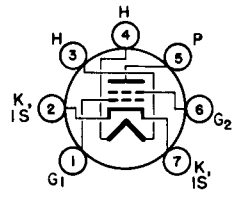
COATED UNIPOTENTICAL CATHODE

HEATER

4.5 VOLTS 300±18 MAMPS. ←

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 7EW

THE 4CY5 IS A SHARP-CUTOFF TETRODE IN THE 7-PIN MINIATURE CONSTRUCTION AND IS DESIGNED FOR SERVICE IN VHF TUNERS OF TELEVISION RECEIVERS. THERMAL CHARACTERISTICS OF THE HEATER ARE CONTROLLED SUCH THAT HEATER VOLTAGE SURGES DURING THE WARM-UP CYCLE ARE MINIMIZED PROVIDED IT IS USED WITH OTHER TYPES WHICH ARE SIMILARLY CONTROLLED. EXCEPT FOR HEATER RATINGS AND HEATER WARM-UP TIME THE 4CY5 IS IDENTICAL TO THE 2CY5, 3CY5, AND THE 6CY5.

DIRECT INTERELECTRODE CAPACITANCES[A]

GRID #1 TO PLATE	0.03	μμf
INPUT	4.5	μμf
OUTPUT	3.0	μμf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

MAXIMUM PLATE VOLTAGE	180	VOLTS
MAXIMUM GRID #2 (SCREEN) SUPPLY VOLTAGE	180	VOLTS
MAXIMUM GRID #2 VOLTAGE	SEE GRID #2 INPUT RATING CHART	
MAXIMUM PLATE DISSIPATION	2.0	WATTS
MAXIMUM GRID #2 DISSIPATION	0.5	WATTS
MAXIMUM GRID #1 (CONTROL GRID) VOLTAGE		
POSITIVE VALUE	0	MA.
MAXIMUM CATHODE CURRENT	20	MA.
MAXIMUM HEATER-CATHODE VOLTAGE		
HEATER POSITIVE WITH RESPECT TO CATHODE	100	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE	100	VOLTS
HEATER WARM-UP TIME (APPROX.)[B]	11.0	SECONDS

[A] WITH SHIELD #316 CONNECTED TO CATHODE.

[B] HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

→ INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

PLATE VOLTAGE	125	VOLTS
GRID #2 VOLTAGE	80	VOLTS
GRID #1 VOLTAGE	-1	VOLTS
PLATE RESISTANCE	0.1	MEGOHM
TRANSCONDUCTANCE	8 000	μMHOS
GRID #1 CUTOFF BIAS[C]	-6	VOLTS
PLATE CURRENT	10	MA.
GRID #2 CURRENT	1.5	MA.

[C] PLATE CURRENT 20 μA.