

TUNG-SOL

PENTODE

MINIATURE TYPE

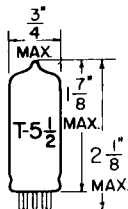
COATED UNIPOTENTIAL CATHODE

HEATER

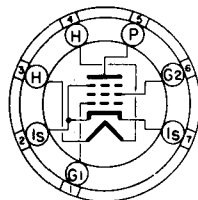
3.15 VOLTS 0.6 AMP.

AC OR DC

ANY MOUNTING POSITION



GLASS BULB



BOTTOM VIEW

MINIATURE BUTTON
7 PIN BASE

780

THE 3CE5 IS AN RF PENTODE HAVING HIGH TRANSCONDUCTANCE COUPLED WITH CLOSELY CONTROLLED GRID CUTOFF CHARACTERISTICS IN THE MINIATURE SEVEN PIN CONSTRUCTION. DESIGNED TO OBTAIN BETTER PERFORMANCE OF LOW COST VHF TELEVISION TUNERS AND TELEVISION IF STAGES, THE 3CE5 IMPROVES AUTOMATIC GAIN CONTROL WITH RESULT THAT SIGNAL CAPACITY IS INCREASED. 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.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

GRID TO PLATE (MAX.)	0.030	μf
INPUT	6.5	μf
OUTPUT	1.9	μf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	3.15	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
* MAXIMUM GRID #2 SUPPLY VOLTAGE	300	VOLTS
* MAXIMUM GRID #2 VOLTAGE	SEE SCREEN RATING CHART	
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION	2.0	WATTS
* MAXIMUM GRID #2 DISSIPATION	0.5	WATTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC COMPONENT	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
HEATER WARM-UP TIME (APPROX.) ^A	11.0	SECONDS

A

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.

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CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A₁ AMPLIFIER

HEATER VOLTAGE	3.15	VOLTS
HEATER CURRENT	0.6	AMP.
PLATE VOLTAGE	125	VOLTS
SCREEN VOLTAGE	125	VOLTS
* GRID #1 SUPPLY VOLTAGE	-1.0	VOLTS
GRID #1 RESISTOR (BYPASSED)	1.0	MEGOHMS
PLATE RESISTANCE (APPROX.)	0.3	MEGOHMS
TRANSCONDUCTANCE	7 600	μMHOS
PLATE CURRENT	11	MA.
SCREEN CURRENT	2.8 ←	MA.
GRID #1 VOLTAGE (APPROX.) I _b = 35 μAMPS.	-5.0	VOLTS

SIMILAR TYPE REFERENCE. Except for heater ratings, the 3CE5 is identical to the 4CE5 and the 6CE5.

→ INDICATES A CHANGE.
* INDICATES AN ADDITION.

