

TUNG-SOL

TWIN TRIODE

MINIATURE TYPE

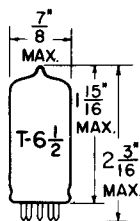
COATED UNIPOTENTIAL CATHODE

HEATER

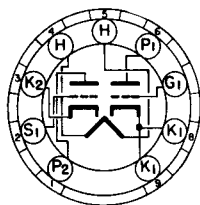
6.3 VOLTS 0.4 AMP.

AC OR DC

ANY MOUNTING POSITION



GLASS BULB



BOTTOM VIEW

SMALL BUTTON
9 PIN BASE

9FC

THE 6CX7 IS A MEDIUM MU TWIN TRIODE IN THE 9 PIN MINIATURE CONSTRUCTION AND IS DESIGNED FOR OPERATION AS A CASCODE (VHF) AMPLIFIER. EXCEPT FOR HEATER CHARACTERISTICS AND HEATER WARM-UP TIME, IT IS IDENTICAL TO THE 4CX7.

DIRECT INTERELECTRODE CAPACITANCES

SHIELD #315 CONNECTED TO HEATER UNLESS SPECIFIED DIFFERENTLY

	SECTION #1	SECTION #2	
GRID TO PLATE: (G TO P)	1.2	---	μf
INPUT: G TO (H+K+E.S.)	2.4	---	μf
OUTPUT: P TO (H+K+E.S.)	1.3	---	μf
HEATER TO CATHODE: (H TO K) ^A	2.4	2.2	μf
PLATE TO CATHODE: (P TO K) (MAX)	0.17	0.17	μf
#2 PLATE TO #1 PLATE AND #1 GRID:			
#2 P TO (#1P+#1G) (MAX.)	.027		μf
PLATE TO PLATE: (#1 P TO #2 P) (MAX.)	.017		μf
GROUNDING GRID OPERATION:			
INPUT: K TO (G+I.S.+H+E.S.)	---	4.2	μf
OUTPUT: P TO (G+I.S.+H+E.S.)	---	1.7	μf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

EACH SECTION

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE		
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC COMPONENT	100	VOLTS
TOTAL DC AND PEAK ^C	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
MAXIMUM PLATE VOLTAGE ^C	250	VOLTS
MAXIMUM PLATE DISSIPATION	2	WATTS

^A SHIELD #315 CONNECTED TO GROUND.^C UNDER CUTOFF CONDITIONS WHEN THE TUBE IS USED AS A CASCODE AMPLIFIER, THIS RATING MAY BE AS HIGH AS 300 VOLTS MAXIMUM.

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CONTINUED FROM PRECEDING PAGE

RATINGS - CONT'D.
INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM
EACH SECTION

CATHODE CURRENT (MAX.)	20	MA.
GRID CIRCUIT RESISTANCE (MAX.)	0.5	MEGOHM

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A₁ AMPLIFIER - EACH SECTION

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.4	AMP.
PLATE VOLTAGE	150	VOLTS
GRID VOLTAGE	0	VOLTS
CATHODE BIAS RESISTOR	220	OHMS
PLATE CURRENT	9.0	MA.
TRANSCONDUCTANCE	6 400	μMHOS
AMPLIFICATION FACTOR	39	
GRID VOLTAGE FOR I _b = 10 μA (APPROX.)	-10	VOLTS