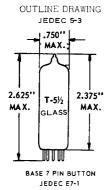
TUNG-SOL -

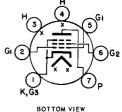
BEAM PENTODE

MINIATURE TYPE



AUDIO OUTPUT PENTODE

BASING DIAGRAM JEDEC 7CV HIGH POWER SENSITIVITY



COATED UNIPOTENTIAL CATHODE ANY MOUNTING POSITION

THE 12FX5 IS A BEAM POWER PENTODE USING THE 7 PIN MINIATURE CONSTRUCTION. BECAUSE OF ITS HIGHPOWER SENSITIVITY AT LOW PLATE-SCREEN VOLTAGE, IT IS PARTICULARLY ADAPT-ABLE TO RECORD PLAYER APPLICATIONS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX. WITHOUT EXTERNAL SHIELD

GRID TO PLATE: G ₁ TO P	Ů . 6	рf
INPUT: G ₁ TO (G ₂ + G ₃ + K + H)	17	pf
OUTPUT: P TO (G ₂ +G ₃ +K+H)	9	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	12.6 VOLTS	450	MA.
HEATER WARM-UP TIME		11	SEC.
LIMITS OF SUPPLIED CURRENT - AC OR DC MAXIMUM HEATER - CATHODE VOLTAGE:		450 ± 30	MA
HEATER NEGATIVE WITH RESPECT TO CATHODE TOTAL DC AND PEAK		200	
HEATER POSITIVE WITH RESPECT TO CATHODE		200	VOLTS
DC COMPONENT		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS

CONTINUED ON FOLLOWING PAGE

----- TUNG-SOL -----

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE GRID #2 VOLTAGE POSITIVE DC GRID #1 VOLTAGE PLATE DISSIPATION GRID #2 DISSIPATION	150 130 0 5.5 2	VOLTS VOLTS VOLTS WATTS WATTS
GRID #1 CIRCUIT RESISTANCE: FIXED BIAS CATHODE BIAS BULB TEMPERATURE (AT HOTTEST POINT ON BULB SURFACE)	0.1 0.5 225	MEGOHM MEGOHM

CHARACTERISTICS

B =		
PLATE VOLTAGE	110	VOLTS
GRID 2 VOLTAGE	115	VOLTS
CATHODE BIAS RESISTOR	62	OHMS
PLATE CURRENT	36	MA
GRID 2 CURRENT	10	MA
TRANSCONDUCTANCE	13,500	M MHOS
PLATE RESISTANCE - APPROX.	17,500	OHMS

TYPICAL OPERATING CONDITIONS

CLASS A AMPLIFIER

PLATE VOLTAGE	110	VOLTS
GRID #2 VOLTAGE	115	VOLTS
CATHODE BIAS RESISTOR - BY PASSED	62	OHMS
PEAK AF GRID #1 VOLTAGE	3	VOLTS
MAXIMUM SIGNAL PLATE CURRENT	35	MA
MAXIMUM SIGNAL GRID #2 CURRENT	12	MA
LOAD RESISTANCE	3,000	OHMS
TOTAL HARMONIC DISTORTION	8	PERCENT
MAXIMUM SIGNAL POWER OUTPUT	1,3	WATTS