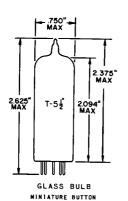
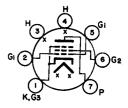
## PENTODE MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE

AUDIO POWER AMPLIFIER FOR SERIES STRING OPERATION

ANY MOUNTING POSITION



BOTTOM VIEW BASING DIAGRAM JEDEC 7CV

0.1

0.5

**МЕ GOHM** 

MEGOHM

OUTLINE DRAWING JEDEC 5-3

GRID #1 CIRCUIT RESISTANCE:

FIXED BIAS

CATHODE BIAS

7 PIN BASE E7-1

THE 40FR5 IS A POWER PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR SERVICE AS AN AUDIO POWER AMPLIFIER.

## DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

#1100	DOL EXIEKUAL SHIELD		
GRID #1 TO PLATE		0.3	рf
input: <b>Gi</b> to (K <sup>+</sup> G3 + G2+H)		12	pf
OUTPUT: P TO (K+G3 + G2+H)		9.0	pf
	ACTERISTICS AND RATINGS ALUES - SEE EIA STANDARD RS-239		
AVERAGE CHARACTERISTICS	40 VOLTS	100	MA.
HEATER SUPPLY LIMITS: CURRENT OPERATION		70016	
MAXIMUM HEATER-CATHODE VOLTAGE:		100±6	MA.
HEATER NEGATIVE WITH RESPECT			
TOTAL DC AND FEAK		200	VOLTS
HEATER POSTIVE WITH RESPECT 1	TO CATHODE		
DC		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS
HEATER WARM-UP TIME A		20	SECONDS
MA	XIMUM RATINGS		
DESIGN MAXIMUM VA	LUES - SEE EIA STANDARD RS-239		
	SS A <sub>1</sub> AMPLIFIER		
PLATE VOLTAGE		150	VOLTS
GRID #2 VOLTAGE		130	VOLTS
PLATE DISSIPATION		5.2	WATTS
GRID #2 DISSIPATION		1.2	WATTS

CONTINUED ON FOLLOWING PAGE

## - TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CHARACTERISTICS

PLATE VOLTAGE	115	110	VOLTS
GRID #2 VOLTAGE	115	110	VOLTS
GRID #1 VOLTAGE		-7.5	VOLTS
CATHODE RESISTOR	180	-1.9	
			OHMS
PEAK AF GRID #1 VOLTAGE	7.0	7.5	VOLTS
ZERO-SIGNAL PLATE CURRENT	34	32	MA.
MAXSIGNAL PLATE CURRENT	31	35	MA.
ZERO-SIGNAL GRID #2 CURRENT	3.2	3	MA.
MAX.—SIGNAL GRID #2 CURRENT	7.	7.5	MA.
TRANSCONDUCTANCE		6000	μ <b>M</b> HOS
PLATE RESISTANCE, APPROX.		20,000	OHMS
LOAD RESISTANCE	3200	2800	OHMS
MAXSIGNAL POWER OUTPUT	1.3	1.5	WATTS
TOTAL HARMONIC DISTORTION	10	10	PERCENT

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 MEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.