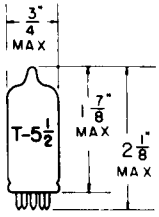
TUNG-SOL

HI-MU TRIODE ←

MINIATURE TYPE



GLASS BULB

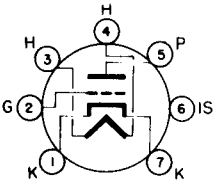
BASE E7-1
OUTLINE DRAWING
JEDEC 5-2

COATED UNIPOTENTIAL CATHODE

HEATER

2.8 VOLTS 0.45 AMP.

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM
JEDEC 7FP

THE 3ER5 IS A HIGH TRANSCONDUCTANCE SHIELDED TRIODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED ESPECIALLY FOR USE IN V.H.F. TELEVISION TUNERS. SEPARATE CATHODE LEADS PROVIDE LOW LEAD INDUCTANCE AND THE INTERNAL SHIELD REDUCES DIRECT GRID TO PLATE CAPACITANCE. EXCEPT FOR HEATER RATINGS AND HEATER WARM-UP TIME, THE 3ER5 IS IDENTICAL TO THE 2ER5 AND THE 6ER5.

DIRECT INTERELECTRODE CAPACITANCES

	WITHOUT SHIELD	WITH SHIELD	
PLATE TO GRID	0.38	0.36	μμf
GRID TO ALL OTHER ELECTRODES EXCEPT PLATE	4.4	4.4	μμf
PLATE TO ALL OTHER ELECTRODES EXCEPT GRID	3.0	4.0	μμf
GRID TO HEATER (MAX.)	0.28	0.28	μμf
PLATE TO CATHODE	0.24	0.20	μμf
GRID TO CATHODE	3.1	3.1	μμf
CATHODE TO HEATER	2.8	2.8	μμf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	2.8	VOLTS
MAXIMUM PLATE VOLTAGE WITHOUT CURRENT	550	VOLTS
MAXIMUM PLATE VOLTAGE	250	VOLTS
MAXIMUM PLATE DISSIPATION	2.2	WATTS
MAXIMUM CATHODE CURRENT	20	MAMPS
MAXIMUM NEGATIVE GRID VOLTAGE	50	VOLTS
MAXIMUM VOLTAGE BETWEEN CATHODE AND HEATER	100	VOLTS
MAXIMUM GRID CIRCUIT RESISTANCE	1	MEGOHM
MAXIMUM CIRCUIT RESISTANCE BETWEEN CATHODE AND HEATER	20 000	OHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE	2.8	2.8		VOLTS
HEATER CURRENT	0.45	0.45		AMP.
PLATE VOLTAGE	200			VOLTS
GRID VOLTAGE	-1.2	-3.8	-5.6	VOLTS
PLATE CURRENT	10			MAMPS
TRANSCONDUCTANCE	10 500	500	100	μMHOS
AMPLIFICATION FACTOR	80			
GRID VOLTAGE FOR A CROSS-MODULATION FACTOR OF 1% (RMS)	100	100	100	MV.