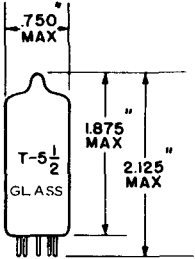


TUNG-SOL

PENTODE

MINIATURE TYPE

OUTLINE DRAWING
JEDEC 5-2

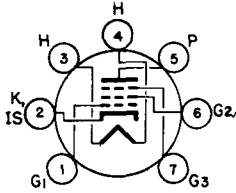


BASE 7 PIN BUTTON
JEDEC E7-1

FOR
FM SOUND DETECTOR
SERVICE

COATED UNIPOTENTIAL CATHODE
ANY MOUNTING POSITION

BASING DIAGRAM
JEDEC 7EN



BOTTOM VIEW

THE 5GX6 IS A SHARP-CUTOFF PENTODE WITH DUAL CONTROL GRIDS IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED PRIMARILY FOR FM SOUND DETECTOR - SERVICE. EXCEPT FOR HEATER CHARACTERISTICS AND RATINGS, THE 5GX6 IS IDENTICAL TO THE 6GX6.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

GRID 1 TO PLATE	0.26	pf
GRID 1 TO (K & I.S., G3, G2, H)	8	pf
GRID 1 TO GRID 3	0.12	pf
GRID 3 TO PLATE	1.6	pf
GRID 3 TO (K & I.S., P, G2, G1, H)	6.5	pf

HEATER CHARACTERISTICS AND RATINGS
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	4.7 VOLTS	600	mA
HEATER WARM UP TIME		11	SECONDS
LIMITS OF SUPPLIED CURRENT		600 ± 40	mA
PEAK HEATER - CATHODE VOLTAGE:			
HEATER POSITIVE WITH RESPECT TO CATHODE		200	VOLTS
DC COMPONENT		100	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		200	VOLTS

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MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

FM SOUND DETECTOR SERVICE

PLATE VOLTAGE	300	VOLTS
GRID 3 VOLTAGE:		
NEGATIVE VALUE - DC AND PEAK	100	VOLTS
POSITIVE VALUE - DC AND PEAK	25	VOLTS
GRID 2 SUPPLY VOLTAGE	300	VOLTS
GRID 2 VOLTAGE	SEE RATING CHART	
GRID 1 VOLTAGE:		
NEGATIVE - BIAS VALUE	50	VOLTS
POSITIVE - BIAS VALUE	0	VOLTS
GRID 3 INPUT	0,1	WATT
GRID 2 INPUT - UP TO 150 VOLTS	1	WATT
- BETWEEN 150 VOLTS AND 300 VOLTS	SEE RATING CHART	
PLATE DISSIPATION	1,7	WATTS
GRID 3 CIRCUIT RESISTANCE	0,68	MEGOHM
GRID 1 CIRCUIT RESISTANCE:		
FOR FIXED - BIAS OPERATION	0,22	MEGOHM
FOR CATHODE - BIAS OPERATION	0,47	MEGOHM

CHARACTERISTICS

CLASS A₁ AMPLIFIER

PLATE SUPPLY VOLTAGE	150	VOLTS
GRID 3 SUPPLY VOLTAGE	0	VOLTS
GRID 2 SUPPLY VOLTAGE	100	VOLTS
GRID 1 SUPPLY VOLTAGE	0	VOLTS
CATHODE RESISTOR	180	OHMS
PLATE CURRENT	3,7	mA
GRID 2 CURRENT	3,0	mA
TRANSCONDUCTANCE - GRID 1 TO PLATE	3,700	μMHOS
TRANSCONDUCTANCE - GRID 3 TO PLATE	750	μMHOS
PLATE RESISTANCE	APPROX. 0,14	MEGOHM
GRID 1 VOLTAGE FOR $I_b = 20 \mu A$	APPROX. -4,5	VOLTS
GRID 3 VOLTAGE FOR $I_b = 20 \mu A$	APPROX. -7	VOLTS

