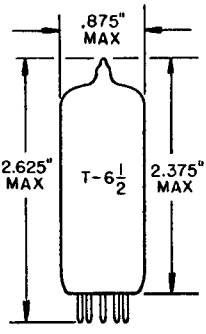
TUNG-SOL

PENTODE

MINIATURE TYPE



GLASS BULB

MINIATURE BUTTON
9 PIN BASE E9-1
OUTLINE DRAWING
JEDEC 6-3

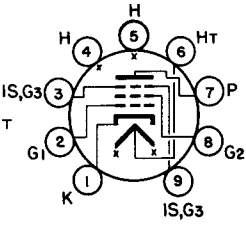
POWER PENTODE

FOR

MOBILE COMMUNICATIONS EQUIPMENT

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM

JEDEC 9BF

THE 8448 IS A POWER PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION FOR USE IN RELIABLE MOBILE RADIO COMMUNICATION EQUIPMENT. IT IS INTENDED TO REPLACE THE 12BY7A WHERE RELIABILITY IS THE PRIMARY CONSIDERATION. ITS HEATER IS DESIGNED TO OPERATE DIRECTLY FROM A 3 OR 6-CELL AUTOMOTIVE BATTERY.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

GRID 1 TO PLATE - G1 TO P	MAX.	0.063	pf
INPUT: G1 TO (H + K + G2 + G3 + I.S.)		10.2	pf
OUTPUT: P TO (H + K + G2 + G3 + I.S.)		3.5	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

SUPPLY CONNECTED TO PINS	6 AND 4 + 5	4 AND 5	
AVERAGE VALUES - VOLTAGE	6.75	13.5	VOLTS
CURRENT	520	260	MA.
LIMITS OF APPLIED HEATER VOLTAGE	6.0 - 7.5	12.0 - 15.0	VOLTS
HEATER CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK	200		VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC	100		VOLTS
TOTAL DC AND PEAK	200		VOLTS

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CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	330	VOLTS
GRID 2 VOLTAGE	190	VOLTS
NEGATIVE GRID VOLTAGE	55	VOLTS
POSITIVE GRID 1 VOLTAGE	0	VOLTS
PLATE DISSIPATION	6.5	WATTS
GRID 2 DISSIPATION	1.2	WATTS
GRID 1 CIRCUIT RESISTANCE		
FIXED BIAS	0.25	MEGOHM
CATHODE BIAS	1.0	MEGOHM

AVERAGE CHARACTERISTICS

PLATE VOLTAGE	250	VOLTS
GRID 2 VOLTAGE	180	VOLTS
CATHODE BIAS RESISTOR	100	OHMS
PLATE CURRENT	26	MA.
GRID 2 CURRENT	5.7	MA.
TRANSCONDUCTANCE	11,000	μMHOS
PLATE RESISTANCE (APPROX.)	93,000	OHMS
TRIODE AMPLIFICATION FACTOR	28.5	
GRID 1 VOLTAGE (APPROX.) FOR Ib = 100 μA	−8.5	VOLTS