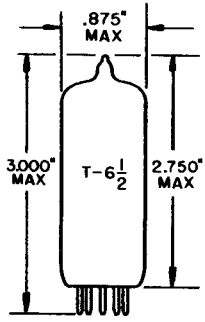
TUNG-SOL

BEAM PENTODE

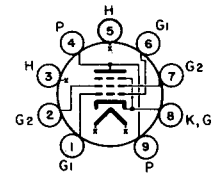
MINIATURE TYPE



FOR
MOBILE EQUIPMENT
APPLICATIONS

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 9DH

HARD GLASS ENVELOPE
MINIATURE BASE E9-1
9PINS-GOLD PLATED TUNGSTEN

THE 6094 IS A BEAM POWER PENTODE IN A T-6 1/2 HARD GLASS ENVELOPE. IT IS DESIGNED FOR SERVICE IN EQUIPMENT WITH HIGH AMBIENT TEMPERATURES AND WHERE HIGH LEVELS OF VIBRATION, SHOCK AND OTHER ACCELERATIONS ARE ENCOUNTERED.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

GRID 1 TO PLATE	1.45	pf
INPUT	8.5	pf
OUTPUT	5.3	pf

HEATER CHARACTERISTICS AND RATINGS

ABSOLUTE MAXIMUM RATING SYSTEM - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3	VOLTS	600	MA
LIMITS OF APPLIED VOLTAGE			6.3±0.3	VOLTS
LIMITS OF HEATER-CATHODE VOLTAGE			450	VOLTS

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

ABSOLUTE MAXIMUM RATING SYSTEM - SEE EIA STANDARD RS-239

PLATE VOLTAGE	275	VOLTS
POSITIVE GRID 1 VOLTAGE	5	VOLTS
GRID 2 VOLTAGE	275	VOLTS
PLATE DISSIPATION	12.5	WATTS
GRID 2 DISSIPATION	2.0	WATTS
CATHODE CURRENT	75	MA
ALTITUDE	60,000	FT
ENVELOPE TEMPERATURE	+300°	C

AVERAGE CHARACTERISTICS

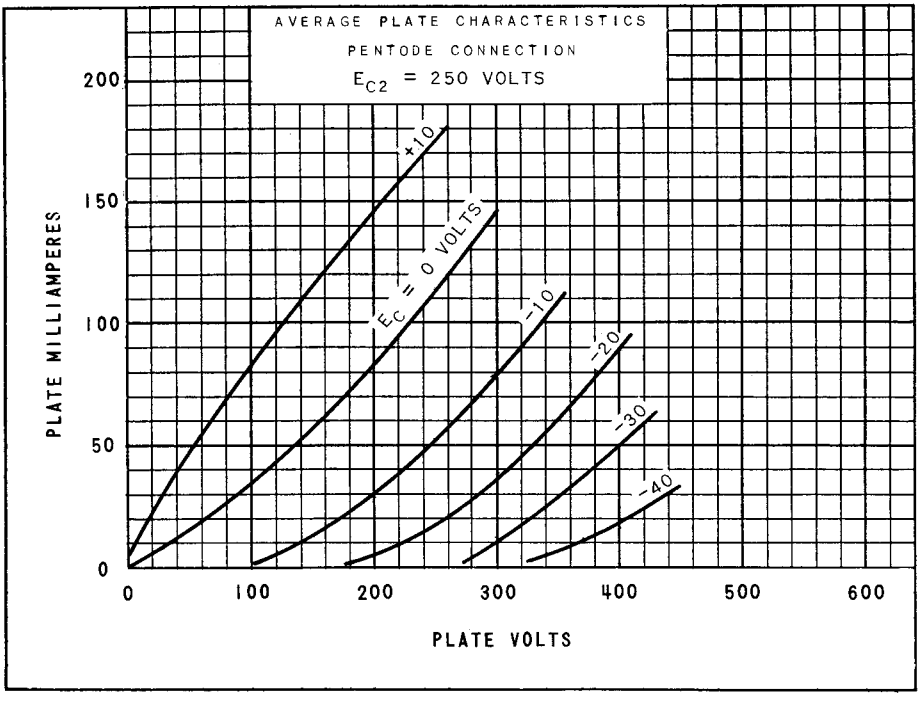
PLATE VOLTAGE	250	VOLTS
GRID 2 VOLTAGE	250	VOLTS
GRID 1 VOLTAGE	-12.5	VOLTS
PLATE CURRENT	45	MA
GRID 2 CURRENT	3.5	MA
TRANSCONDUCTANCE	4,100	μMHOS

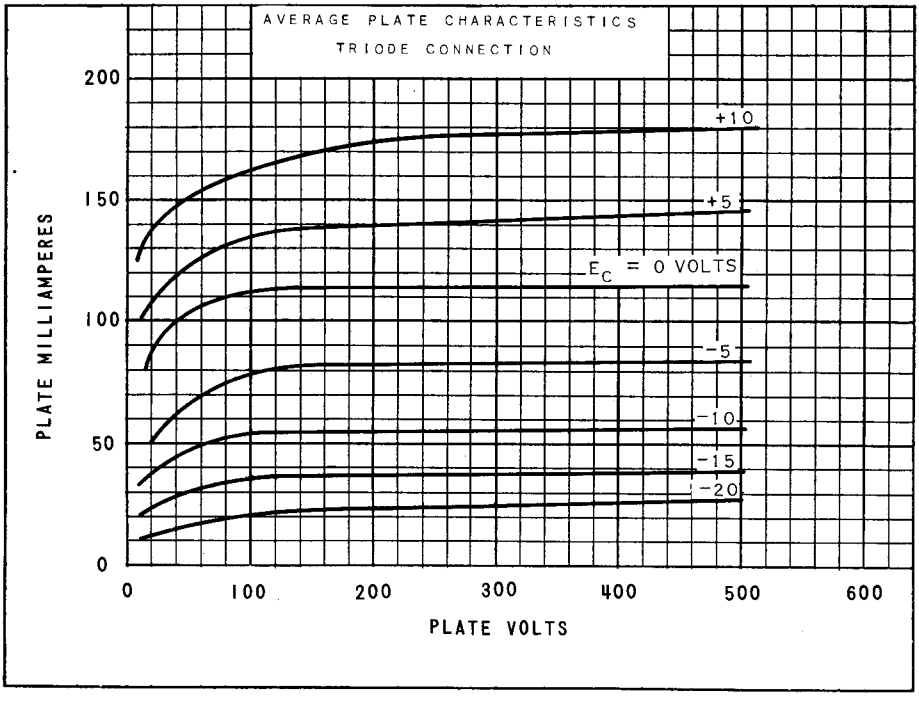
TYPICAL OPERATION

PLATE VOLTAGE	250	VOLTS
GRID 2 VOLTAGE	250	VOLTS
GRID 1 VOLTAGE	-12.5	VOLTS
GRID 1 SIGNAL VOLTAGE	8.8	VOLTS RMS
LOAD RESISTANCE	5,000	OHMS
POWER OUTPUT	4.5	WATTS

ADDITIONAL TESTS

HEATER CYCLING
HIGH TEMPERATURE LIFE
HIGH LEVEL FATIGUE
SHOCK


AVERAGE PLATE CHARACTERISTICS
PENTODE CONNECTION
E_{C2} = 250 VOLTS
PLATE MILLIAMPERES
PLATE VOLTS
0
50
100
150
200
0
100
200
300
400
500
600
+10
E_C = 0 VOLTS
-10
-20
-30
-40


AVERAGE PLATE CHARACTERISTICS
TRIODE CONNECTION
PLATE MILLIAMPERES
PLATE VOLTS
0
50
100
150
200
0
100
200
300
400
500
600
+10
+5
$-E_C$ = 0 VOLTS
-5
-10
-15
-20