TUNG-SOL

PENTODE

MINIATURE TYPE

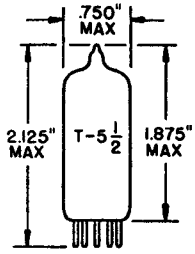
FOR

MOBILE COMMUNICATIONS

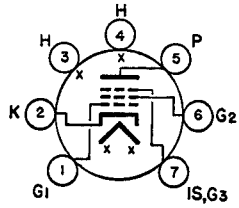
EQUIPMENT

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



GLASS BULB
MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2



BOTTOM VIEW
BASING DIAGRAM
JEDEC 7CM

THE 6662 IS A MINIATURE REMOTE-CUTOFF PENTODE DESIGNED FOR USE AS A WIDE-BAND HIGH-FREQUENCY AMPLIFIER.

THE 6662 MAY BE OPERATED WITHOUT SERIOUS DEGRADATION UNDER NORMAL VARIATIONS IN SUPPLY VOLTAGE AS ENCOUNTERED WITH AUTOMOTIVE ELECTRICAL SYSTEMS. ALTHOUGH THE TUBE WILL TOLERATE LARGE HEATER VOLTAGE VARIATIONS FOR SHORT PERIODS, HIGHER EQUIPMENT RELIABILITY CAN BE ACHIEVED WITH IMPROVED SUPPLY-VOLTAGE REGULATION.

THE ELECTRICAL CHARACTERISTICS OF THE 6662 ARE EQUIVALENT TO THE 6BJ6.

DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD[A]	WITHOUT SHIELD	
GRID 1 TO PLATE, MAXIMUM	0.0035	0.0035	pf
INPUT	4.5	4.5	pf
OUTPUT	5.5	5.5	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3	VOLTS	150	MA.
HEATER SUPPLY LIMITS:				
VOLTAGE OPERATION			6.3±1.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:				
HEATER POSITIVE WITH RESPECT TO CATHODE			100	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE			100	VOLTS

[A] WITH EXTERNAL SHIELD 316 CONNECTED TO PINS 2 AND 7.

CONTINUED ON FOLLOWING PAGE

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	330	VOLTS
GRID 2 SUPPLY VOLTAGE	330	VOLTS
GRID 2 VOLTAGE	See Rating Chart	
POSITIVE DC GRID 1 VOLTAGE	0	VOLTS
NEGATIVE DC GRID 1 VOLTAGE	55	VOLTS
PLATE DISSIPATION	3.3	WATTS
GRID 2 DISSIPATION	0.65	WATTS

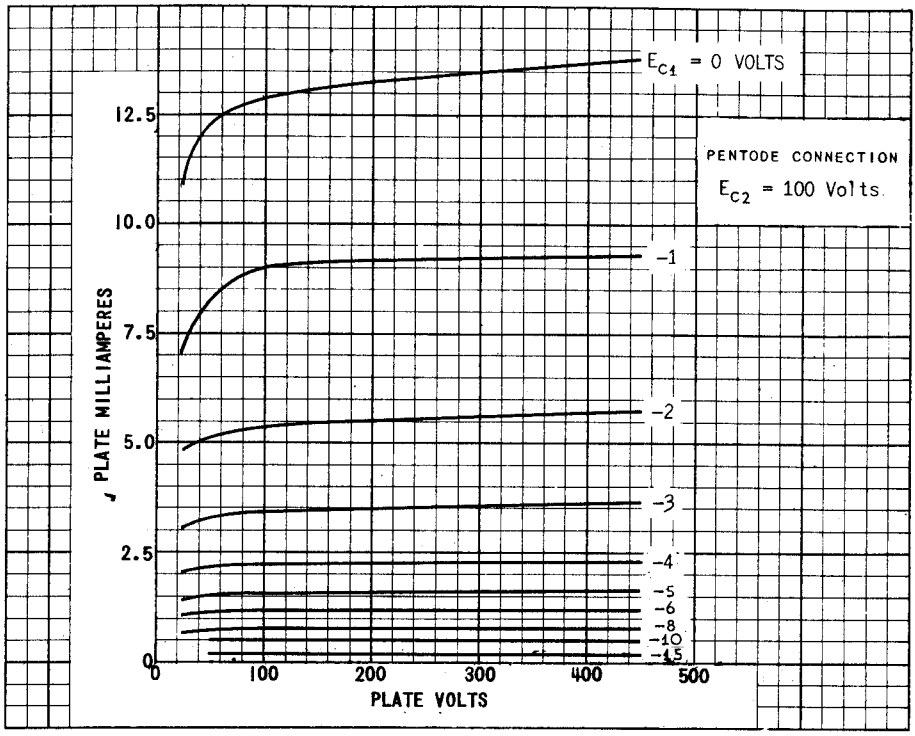
TYPICAL OPERATING CHARACTERISTICS

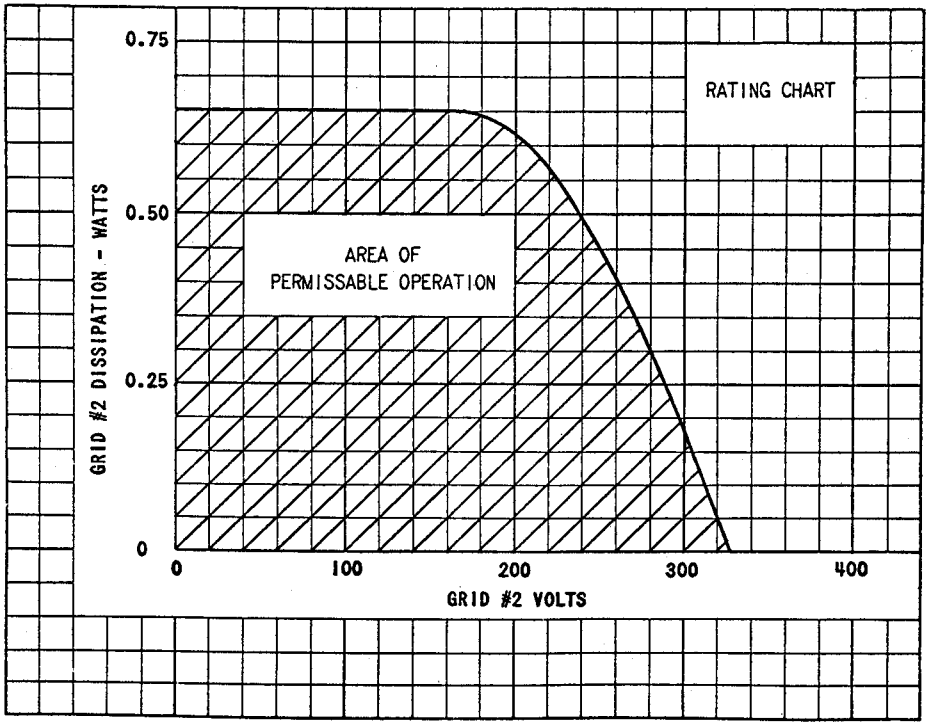
CLASS A1 AMPLIFIER

PLATE VOLTAGE	100	250	VOLTS
GRID 3 VOLTAGE	0	0	VOLTS
GRID 2 VOLTAGE	100	100	VOLTS
CATHODE-BIAS RESISTOR	80	80	OHMS
PLATE CURRENT	9.0	9.2	MA.
GRID 2 CURRENT	3.5	3.3	MA.
TRANSCONDUCTANCE	3,650	3,600	μMHOS
PLATE RESISTANCE, APPROX.	0.25	1.3	MEGOHMS
GRID 1 VOLTAGE (APPROX.) FOR $G_m = 10 \mu MHOS$	-20	-20	VOLTS

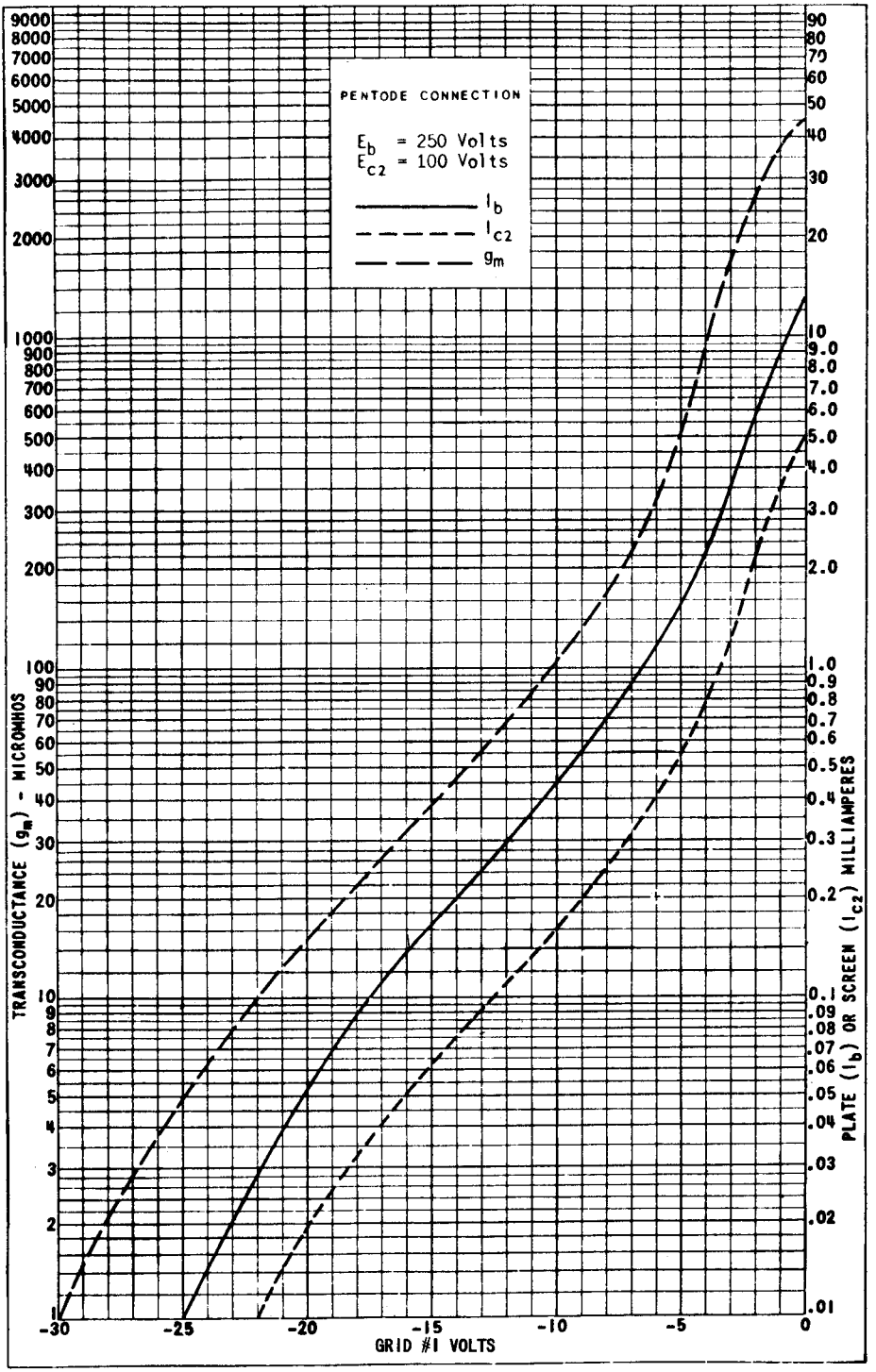
SPECIAL TESTS AND RATINGS

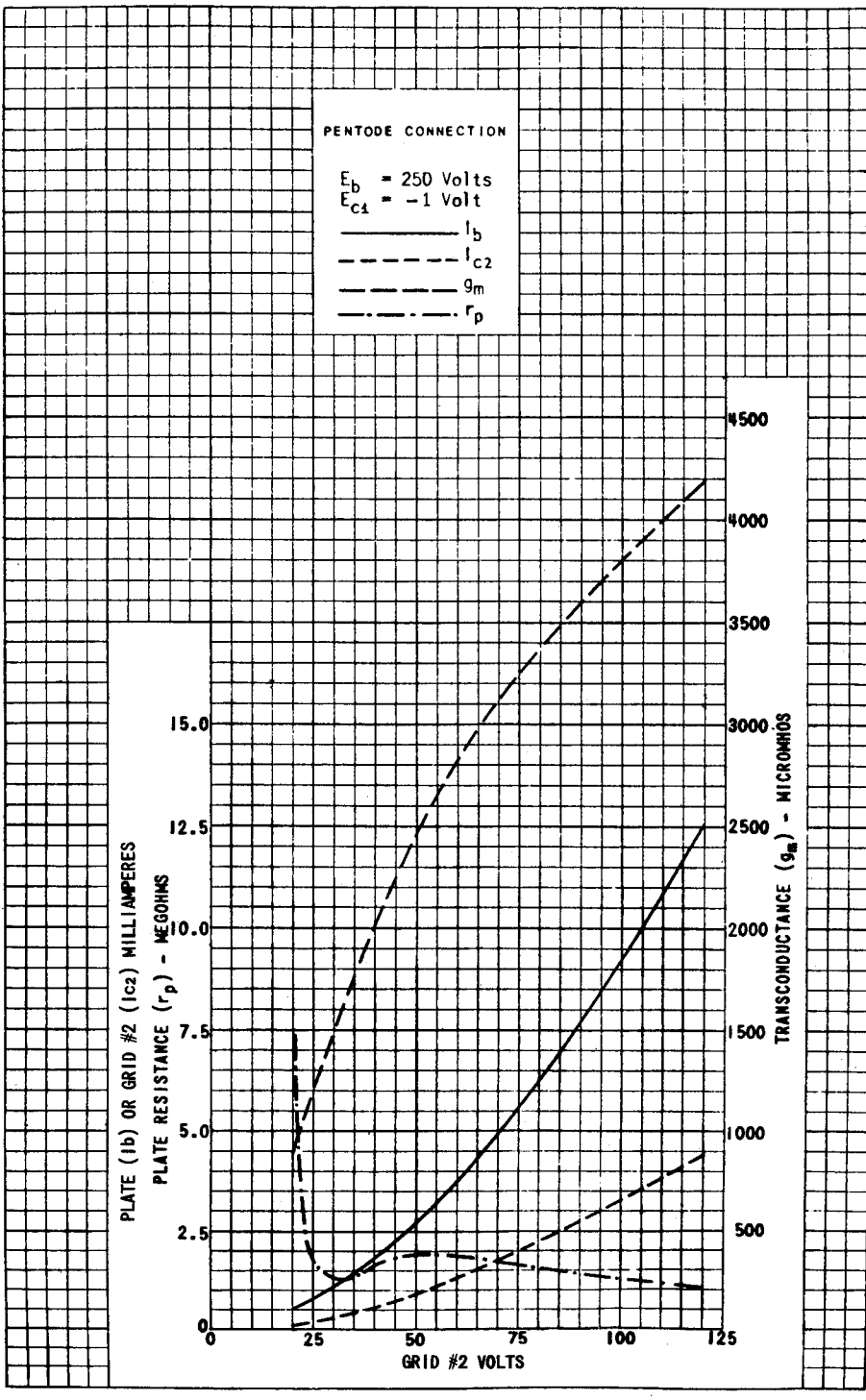
HEATER-CYCLING RATING





6662


PENTODE CONNECTION
E_b = 250 Volts
E_{c2} = 100 Volts
I_b
I_{c2}
g_m
TRANSCONDUCTANCE (g_m) - MICROMHOS
PLATE (I_b) OR SCREEN (I_{c2}) MILLIAMPERES
GRID #1 VOLTS
-30
-25
-20
-15
-10
-5
0


PENTODE CONNECTION
E_b = 250 Volts
E_{c1} = −1 Volt
I_b
I_{c2}
g_m
r_p
PLATE (I_b) OR GRID #2 (I_{c2}) MILLIAMPERES
PLATE RESISTANCE (r_p) - MEGOHMS
TRANSCONDUCTANCE (g_m) - MICROMHOS
GRID #2 VOLTS
0
2.5
5.0
7.5
10.0
12.5
15.0
500
1000
1500
2000
2500
3000
3500
4000
4500
25
50
75
100
125