TUNG-SOL

PENTODE

MINIATURE TYPE

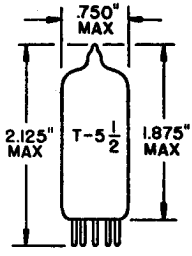
FOR

MOBILE COMMUNICATIONS

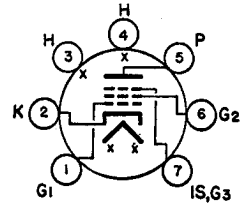
EQUIPMENT

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 6661 IS A MINIATURE REMOTE-CUTOFF PENTODE DESIGNED FOR USE AS A WIDE-BAND HIGH-FREQUENCY AMPLIFIER.

THE 6661 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 6661 ARE EQUIVALENT TO THE 6BH6.

DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD[A]	WITHOUT SHIELD	
GRID 1 TO PLATE, MAXIMUM	0.0035	0.0035	pf
INPUT	5.4	5.4	pf
OUTPUT	4.4	4.4	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.

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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	0.55	WATTS

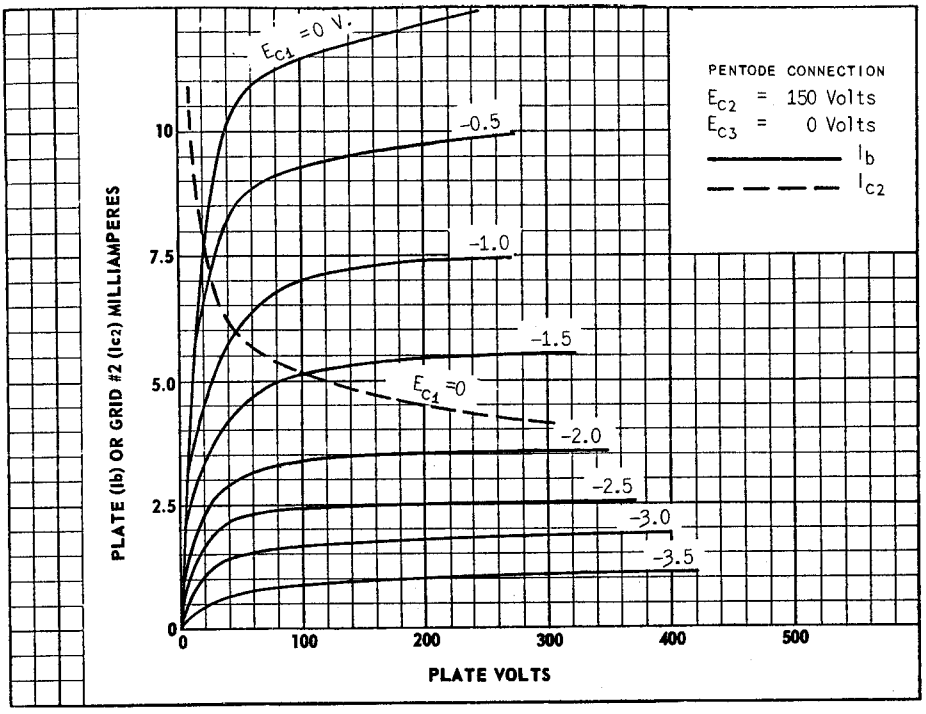
TYPICAL OPERATING CHARACTERISTICS

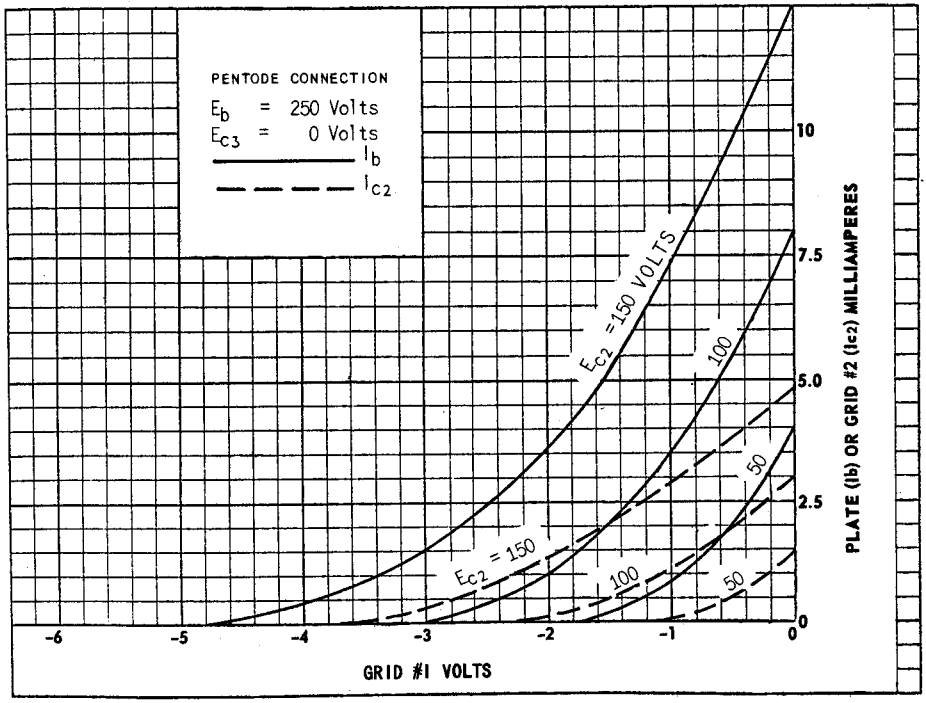
CLASS A1 AMPLIFIER

PLATE VOLTAGE	250	VOLTS
GRID 3 VOLTAGE	0	VOLTS
GRID 2 VOLTAGE	150	VOLTS
CATHODE-BIAS RESISTOR	100	OHMS
PLATE CURRENT	7.4	MA.
GRID 2 CURRENT	2.6	MA.
TRANSCONDUCTANCE	4,600	μMHOS
PLATE RESISTANCE, APPROX.	1.4	MEGOHMS
GRID 1 VOLTAGE (APPROX.) FOR I_b = 10 μAMPS.	-7.7	VOLTS

SPECIAL TESTS AND RATINGS

HEATER-CYCLING RATING





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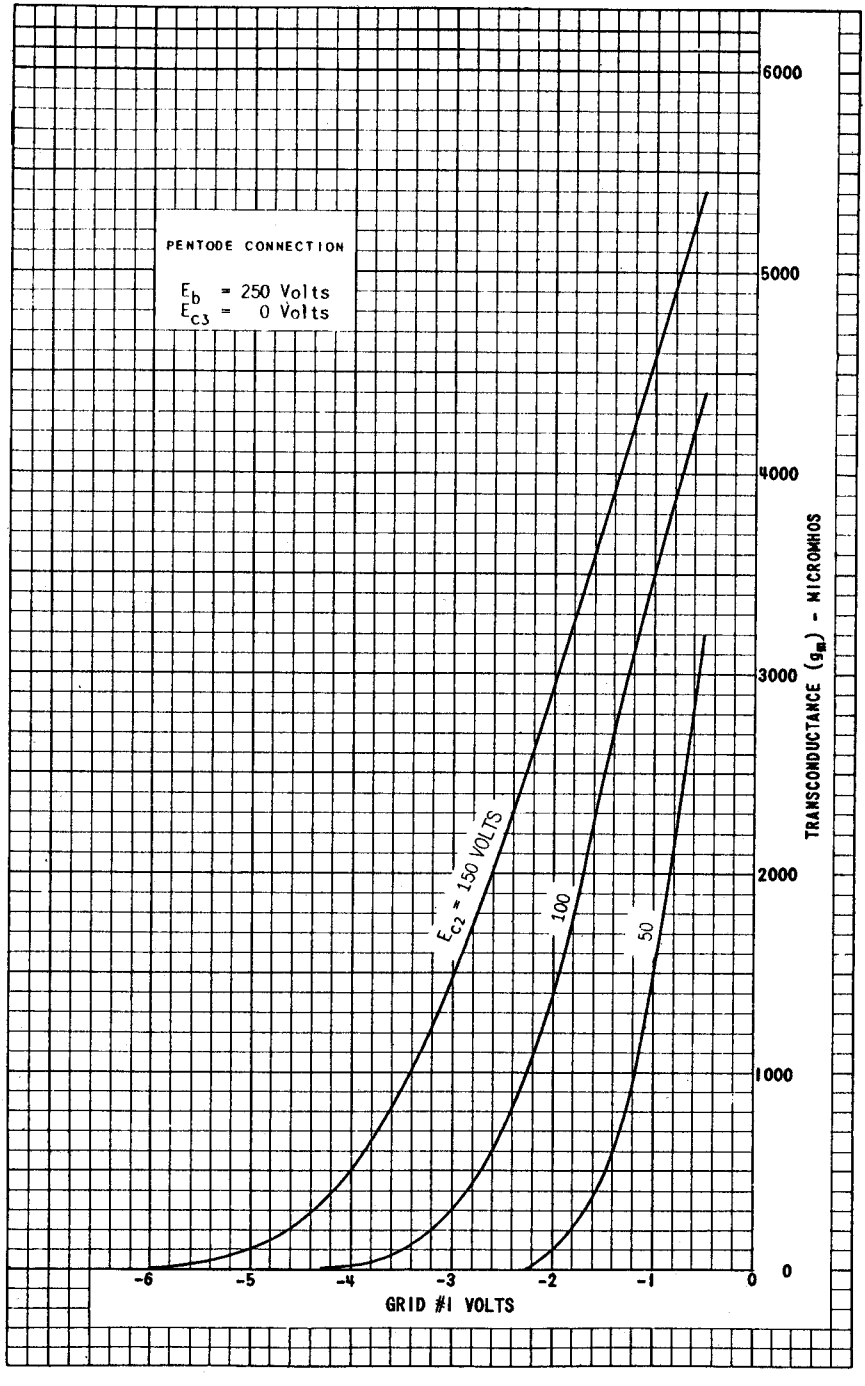
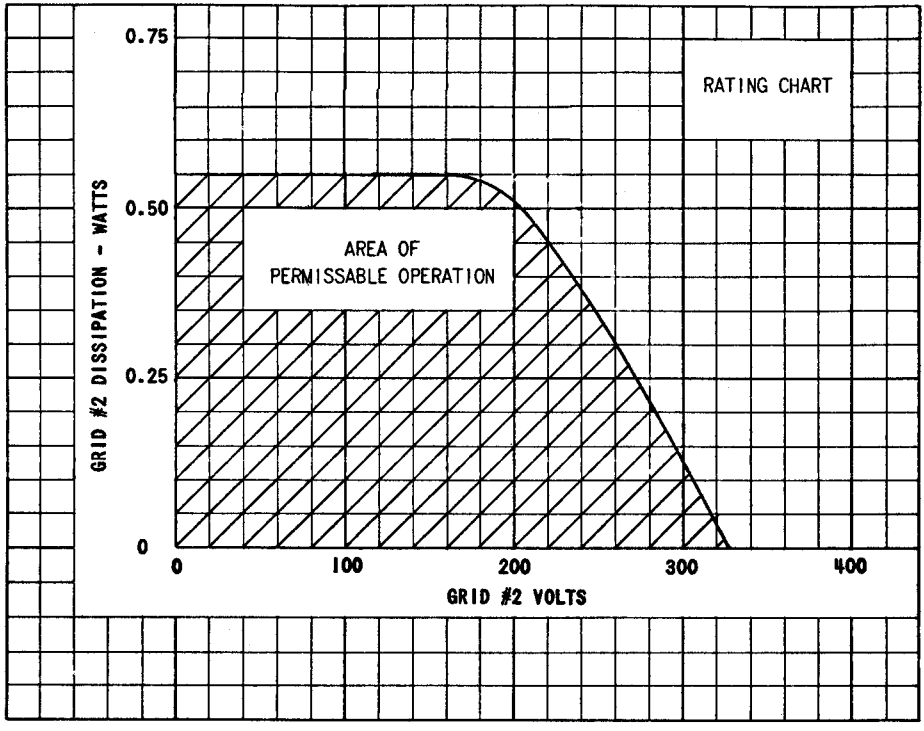

PENTODE CONNECTION
E_b = 250 Volts
E_{c3} = 0 Volts
E_{c2} = 150 VOLTS
100
50
TRANSCONDUCTANCE (g_m) - MICROMHOS
6000
5000
4000
3000
2000
1000
0
-6
-5
-4
-3
-2
-1
0
GRID #1 VOLTS


RATING CHART
AREA OF
PERMISSABLE OPERATION
GRID #2 DISSIPATION - WATTS
0.75
0.50
0.25
0
0
100
200
300
400
GRID #2 VOLTS