

Type 6662/6BJ6 is designed specifically for use in mobile communications equipment. The 6662/6BJ6 may be operated without serious degradation under normal variations in supply voltage as encountered with automotive electrical systems. Also consistent with the requirements of the equipment the tube is capable of withstanding appreciable on-off cycling.

MECHANICAL DATA

Bulb	T-5½
Base	E7-1, Miniature Button, 7-Pin
Outline	5-2
Basing	7CM
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage ¹	6.3 Volts	
Heater Current	150 Ma	
Heater-Cathode Voltage (Design Center Values)		
Heater Positive with Respect to Cathode	100 Volts	Max.
Heater Negative with Respect to Cathode	100 Volts	Max.

DIRECT INTERELECTRODE CAPACITANCES

	Shielded	Unshielded	
Grid No. 1 to Plate	0.0035	0.0035	μmf Max.
Input: g1 to (h+k+g2+g3+I.S.)	4.5	4.5	μmf
Output: p to (h+k+g2+g3+I.S.)	5.5	5.5	μmf

RATINGS (Design Center Values)

Plate Voltage	330 Volts	Max.
Grid No. 2 Supply Voltage	330 Volts	Max.
Grid No. 2 Voltage	See Rating Chart	
Positive Grid No. 1 Voltage	0 Volts	Max.
Negative Grid No. 1 Voltage	55 Volts	Max.
Plate Dissipation	3.3 Watts	Max.
Grid No. 2 Dissipation	0.65 Watt	Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier		
Plate Voltage	100	250 Volts
Grid No. 2 Voltage	100	100 Volts
Grid No. 3 Voltage	Connect to Cathode at Socket	
Cathode Bias Resistor	80	80 Ohms
Plate Current	9	9.2 Ma
Grid No. 2 Current	3.5	3.3 Ma
Transconductance	3650	3600 μmhos
Plate Resistance	0.25	1.3 Megohms
Ec1 for gm = 10 μmhos (Approx.)	-20	-20 Volts

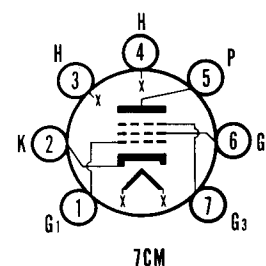
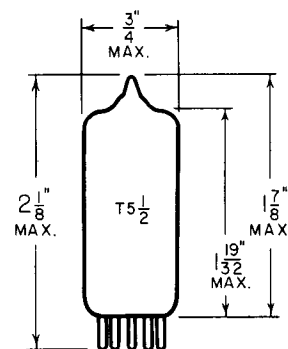
SPECIAL TESTS AND RATINGS

Heater Cycling Ratings	
Cycles of Intermittent Operation (Minimum)	2000 Cycles
Ef = 7.5 volts cycled for one minute on and one minute off.	
Eb + Ec3 + Ec2 + Ec1 = 0 volts.	
Ehk = 135 volts with heater positive with respect to cathode.	
Average Transconductance at Reduced Heater Voltage	2900 μmhos
Ef = 5.0 volts, Eb = 250 volts, Ec3 = 0 volts, Ec2 = 100 volts,	
Rk = 80 ohms (bypassed)	

QUICK REFERENCE DATA

Sylvania Type 6662/6BJ6 is designed specifically for mobile operation. It is a T-5½ semi-remote cutoff pentode designed for use as a R-F or I-F amplifier.

Type 6662/6BJ6 possesses electrical characteristics essentially equivalent to Type 6BJ6.



SYLVANIA ELECTRONIC TUBES

A Division of Sylvania Electric Products Inc.

RECEIVING TUBE OPERATIONS EMPORIUM, PA.

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

AUGUST, 1960

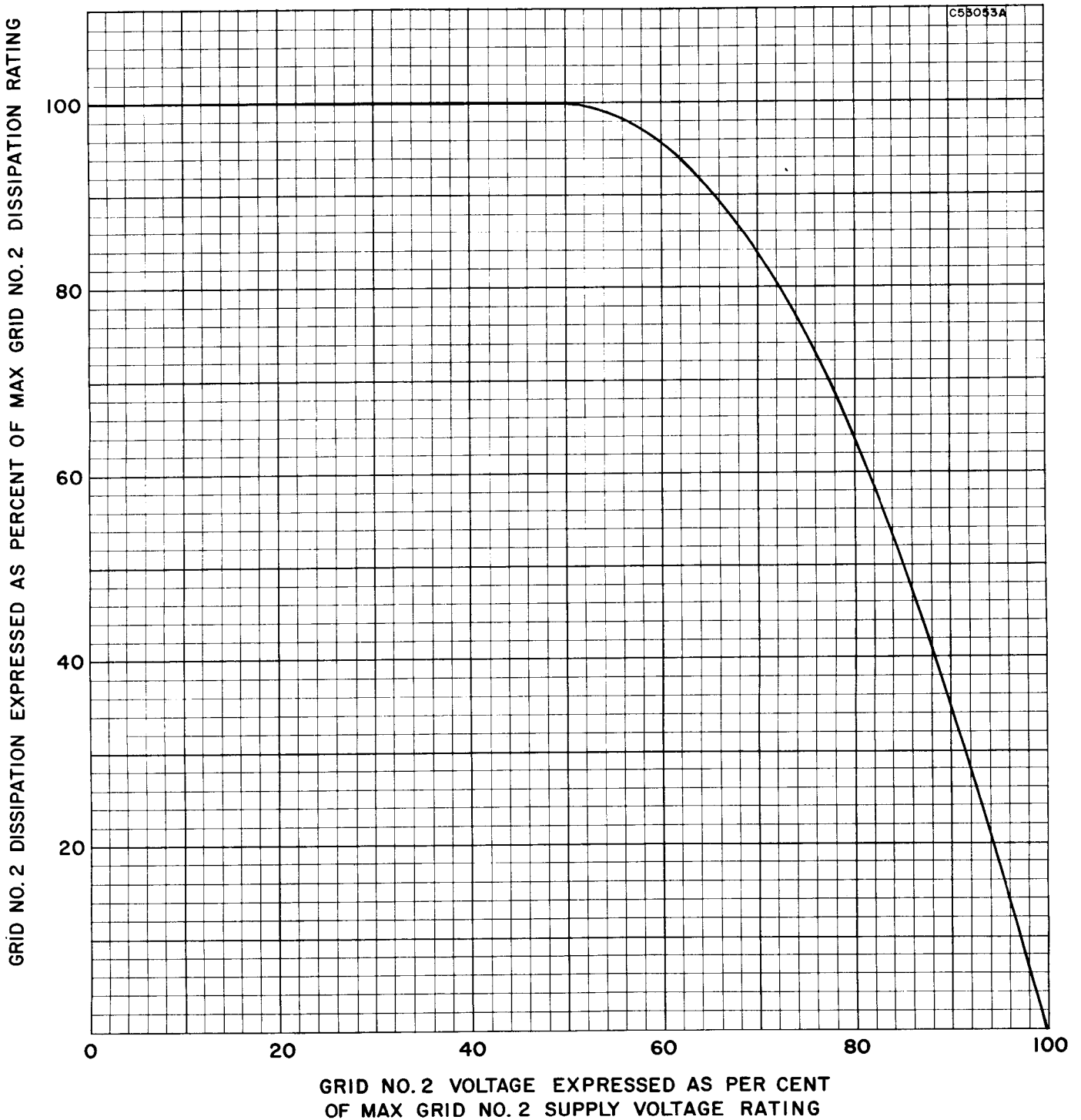
PAGE 1 OF 3

File Under RECEIVING TUBES

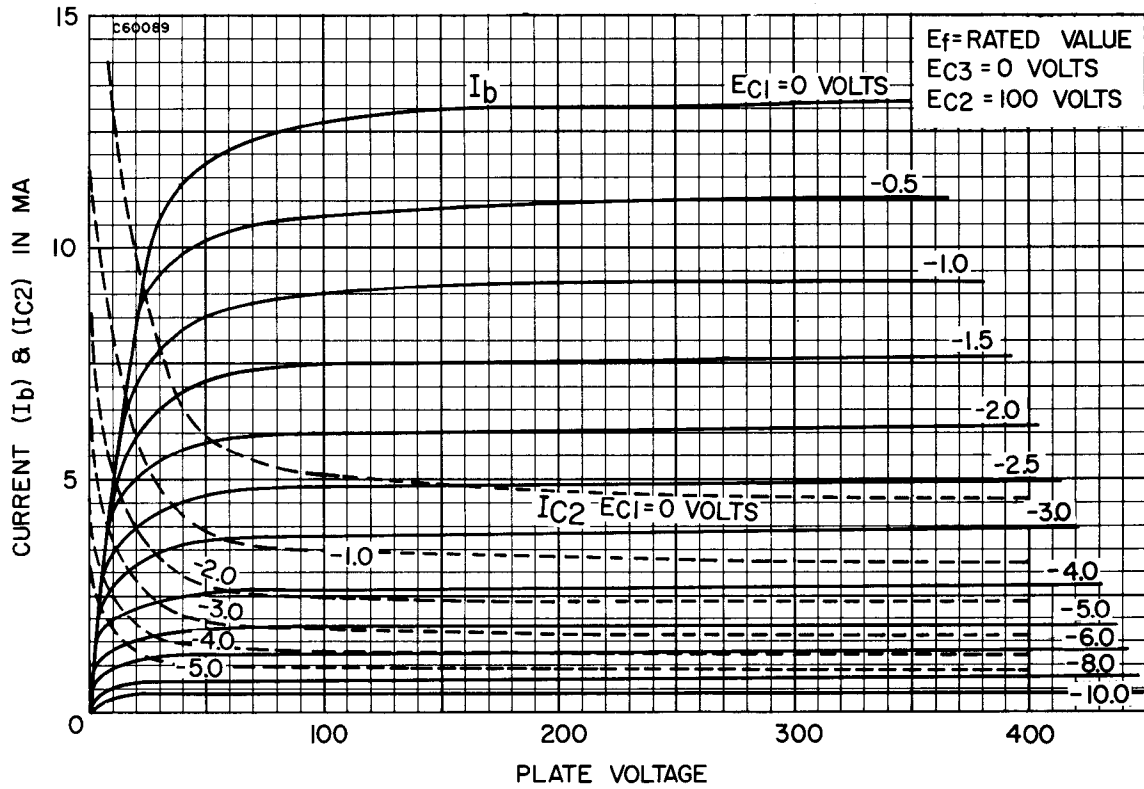
NOTE:

1. When operated from automotive electrical systems, the heater may be subjected to voltage variations as great as ± 20 percent. Although such extremes in heater voltage may be tolerated for short periods, increased equipment reliability can be achieved with improved supply-voltage regulation.

RATING CHART



AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS

