

TUNG-SOL

PRODUCT BULLETIN

INDUSTRIAL ELECTRON TUBE TYPE 8236

FEBRUARY 1963

BEAM POWER PENTODE

DESCRIPTION — The Tung-Sol 8236 is an all service beam power pentode particularly suited for use in horizontal deflection circuits and as an R-F power amplifier up to 30 megacycles. Its carbon anode and hard glass bulb permit continuous operation at 50-watt plate dissipation.

In most cases, the 8236 will function as a high dissipation, direct plug-in replacement for the 6DQ5.

ELECTRICAL DATA

Heater Voltage	6.3 ± 10%	Volts
Heater Current — $E_f = 6.3$ Volts	2.5	Amperes
Transconductance	10,500	Micromhos
Mu, Grid No. 2 to Grid No. 1	3.3	
Direct Interelectrode Capacitances		
Grid No. 1 to Plate	0.5	Picofarad
Input	23	Picofarads
Output	11	Picofarads

MECHANICAL DATA

Mounting Position	Any
Bulb	JEDEC T-12
Base	Large wafer octal with sleeve, JETEC No. B8-98
Cap	JEDEC C1-1 (Small)
Maximum Net Weight	3.75 ounces

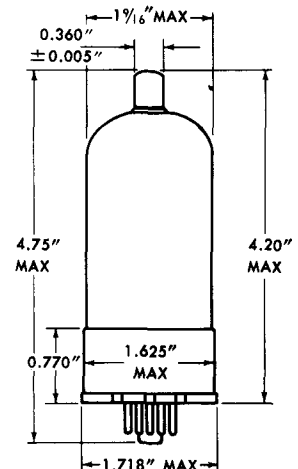
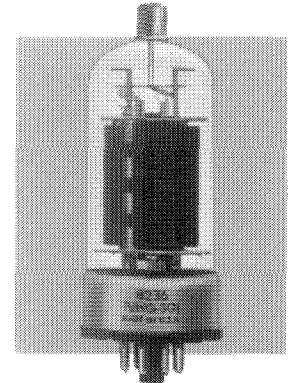
R-F POWER AMPLIFIER Class C Telegraphy and F-M Telephony

MAXIMUM RATINGS: (Up to 30 Mc)

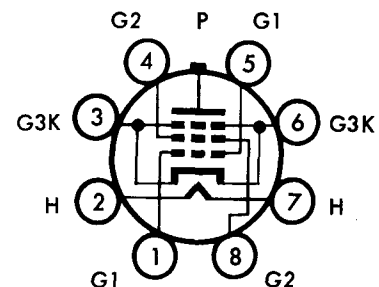
	CCS	ICAS	
D-C Plate Voltage	1,000	1,200	Volts
D-C Grid No. 2 Voltage	200	200	Volts
D-C Grid No. 1 Voltage	-150	-150	Volts
D-C Plate Current	200	230	Milliamperes
D-C Grid No. 1 Current	3.5	4.0	Milliamperes
Plate Input	150	200	Watts
Grid No. 2 Input	3.2	3.2	Watts
Plate Dissipation	50	60	Watts
Peak Heater-Cathode Voltage	±135	±135	Volts
Bulb Temperature	250	250	Degrees Centigrade

TYPICAL OPERATION — As Amplifier up to 30 Megacycles

D-C Plate Voltage	700	900	Volts
D-C Grid No. 2 Voltage	140	145	Volts
from Series Resistor of	40,000	70,000	Ohms
D-C Grid No. 1 Voltage	-75	-77	Volts
from Grid No. 1 Resistor of	27,000	24,000	Ohms
Peak R-F Grid No. 1 Voltage	90	97	Volts
D-C Plate Current	200	227	Milliamperes
D-C Grid No. 2 Current	14	11	Milliamperes
D-C Grid No. 1 Current—Approximate	2.8	3.3	Milliamperes
Driving Power—Approximate	0.23	0.28	Watts
Plate Power Input	140	200	Watts
Power Output	105	141	Watts



OUTLINE DRAWING



BOTTOM VIEW

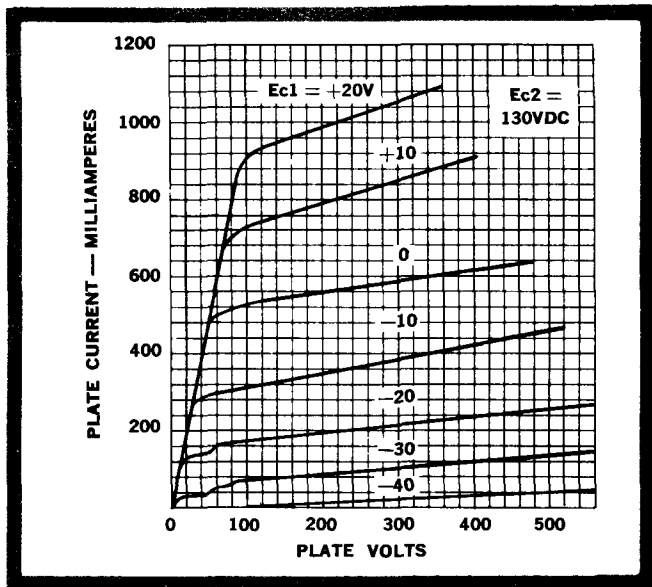


PLATE CHARACTERISTIC CURVE

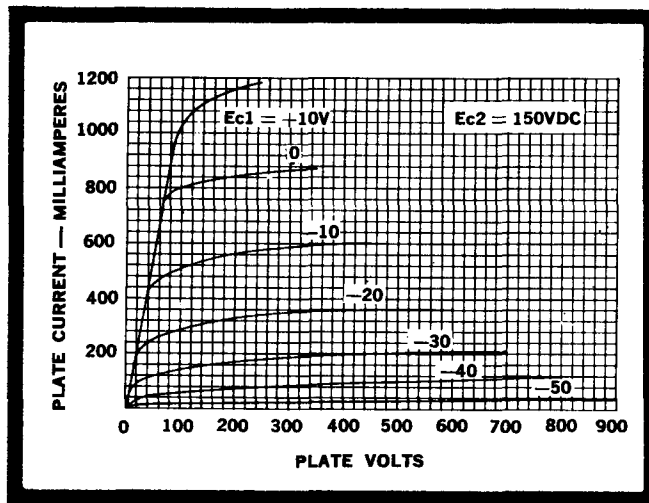
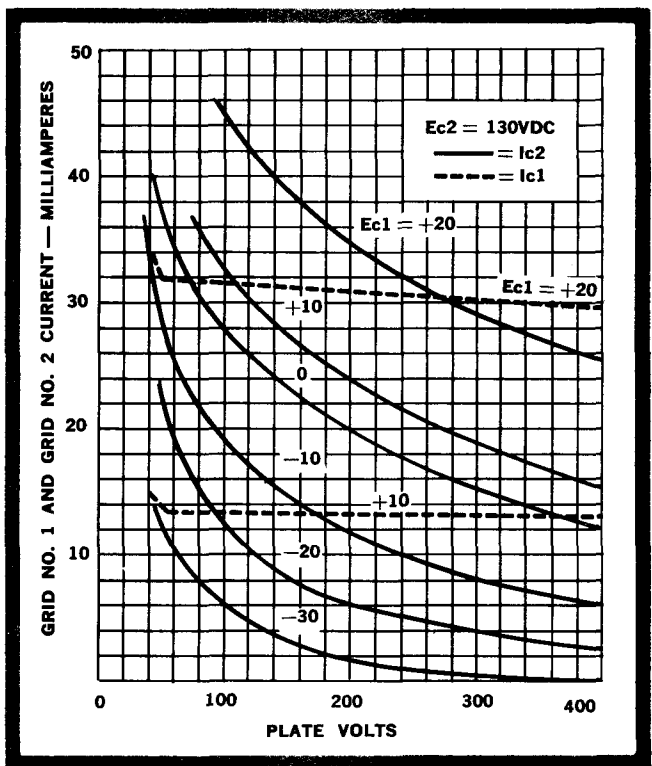
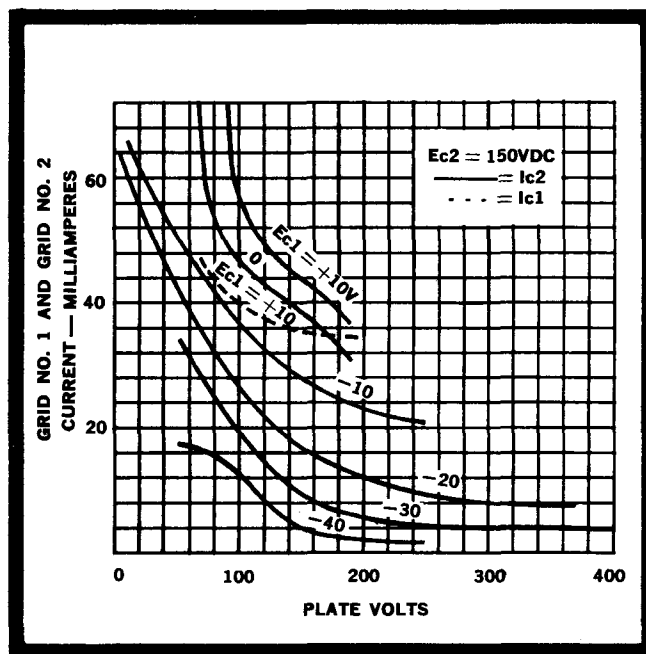


PLATE CHARACTERISTIC CURVE



GRID NO. 1 AND GRID NO. 2 CURRENT VS. PLATE VOLTAGE



GRID NO. 1 AND GRID NO. 2 CURRENT VS. PLATE VOLTAGE

