

July 1, 1963

SHARP-CUTOFF PENTODE TYPE 8426

The 8426 is a 7-pin miniature, sharp-cutoff pentode type designed for service in wide band IF and RF amplifiers. It is operationally similar to type 6AU6 but has a higher transconductance-to-plate-current ratio.

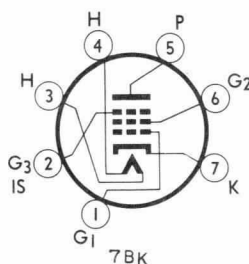
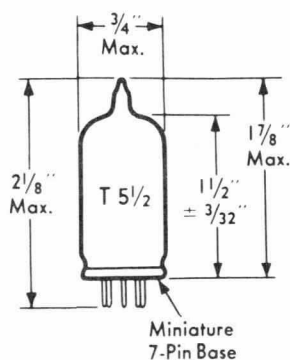
The 8426 features cathode materials and cathode coatings controlled for interface-free long life in industrial applications.

ELECTRICAL

Cathode.....	Coated Unipotential
Heater:	
Voltage (ac or dc)	12.6 ± 10% Volts
Current	0.15 Ampere
Direct Interelectrode Capacitances:	
Pentode Connection:	Unshielded
Grid to Plate (Max.)	0.0030 pf
Input	5.9 pf
Output	5.1 pf
Triode Connection (Note 1):	
Grid to Plate	2.5 pf
Input	3.6 pf
Output	1.1 pf

MECHANICAL

Bulb	T-5½
Base	Miniature 7-Pin (JEDEC E7-1)
Outline	5-2
Basing	7BK
Mounting Position	Any



MAXIMUM RATINGS

Design Maximum Values

	Triode Connection	Pentode Connection	
Plate Voltage	275	330	max. Volts
Grid 2 Supply Voltage	(Note 1)	330	max. Volts
Grid 2 Voltage	(Note 1)	See Grid 2 Input Rating Chart	
Plate Dissipation	3.5	3.5	max. Watts
Grid 2 Dissipation	—	0.75	max. Watts
Grid 1 Voltage, Positive Bias Value	0	0	max. Volts
Heater-Cathode Voltage:			
Heater Negative with Respect to Cathode			
Total DC + Peak		200	max. Volts
Heater Positive with Respect to Cathode			
DC Component		100	max. Volts
DC + Peak		200	max. Volts
Cathode Interface Impedance after 1000 Hour Life Test (Note 2)		5	max. Ohms

AMPLIFIER - CLASS A

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	100	250	250	Volts
Grid 2 Voltage	100	125	150	Volts
Grid 3 Voltage	Connected to Cathode			
Cathode Resistor	150	100	68	Ohms
Transconductance	4500	5500	6200	μmhos
Plate Resistance	0.6	1.3	1.1	Megohm
Grid 1 Cutoff Bias (Note 3)	-4.1	-4.9	-5.8	Volts
Plate Current	4.8	7.4	10.5	Ma.
Grid 2 Current	1.9	2.8	4.1	Ma.

CHARACTERISTICS (Triode Connected)

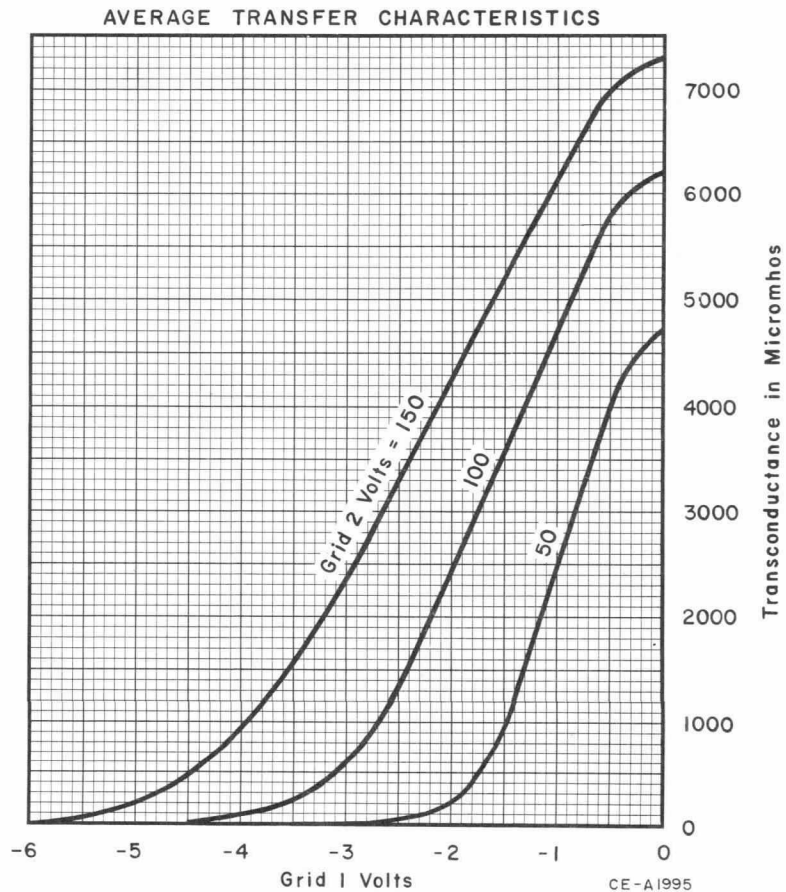
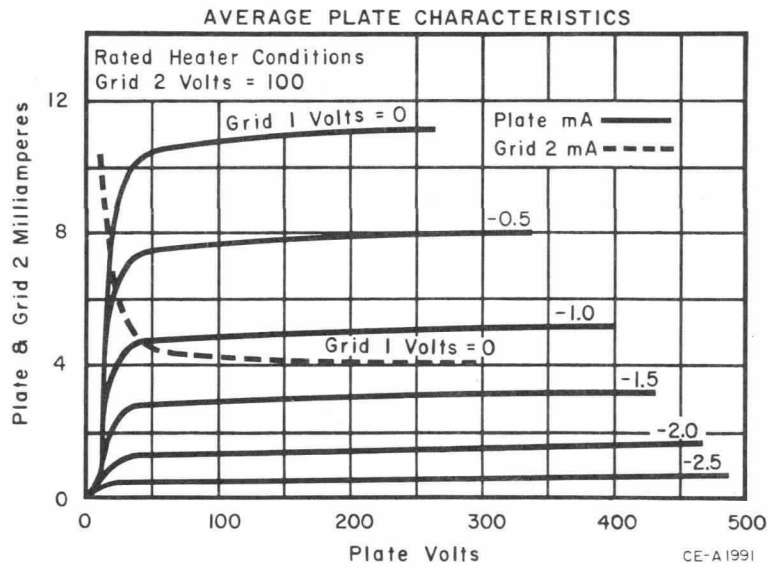
Plate Voltage	250	Volts
Cathode Resistor	330	Ohms
Amplification Factor	41	—
Transconductance	6000	μmhos
Plate Current	11.2	Ma.

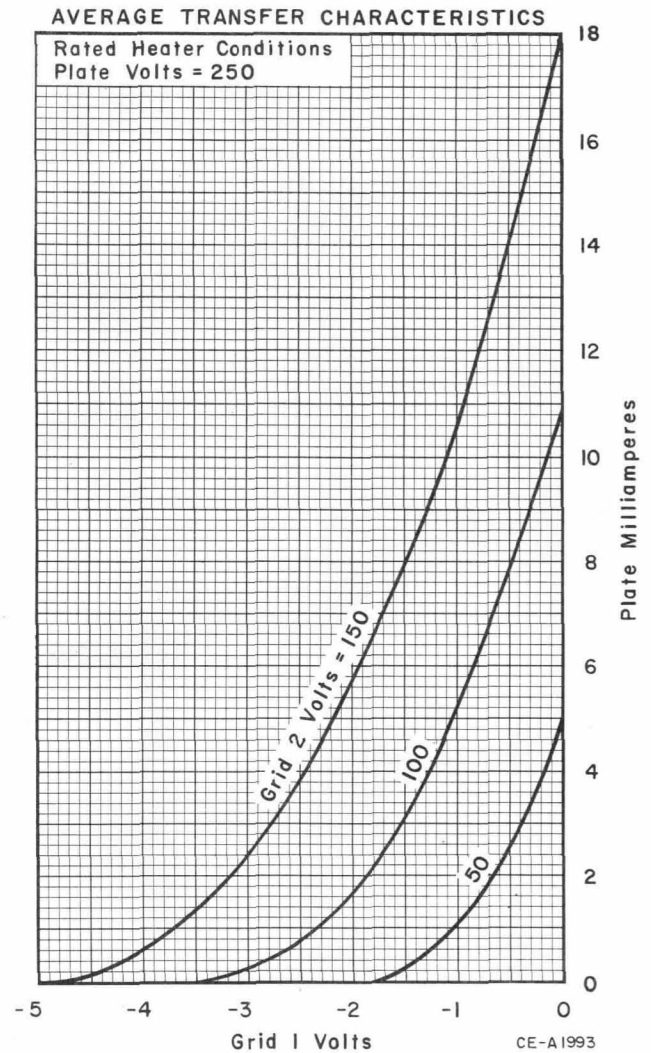
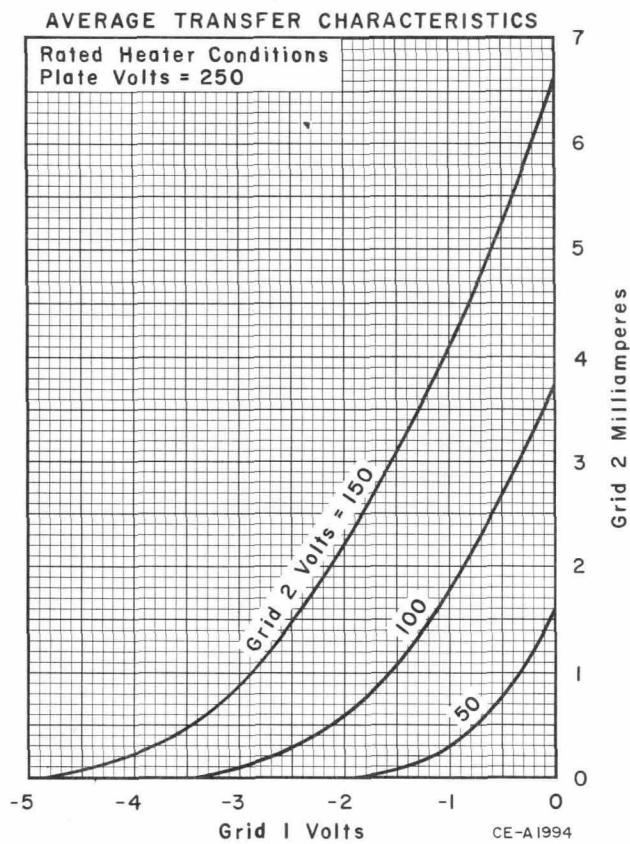
NOTES

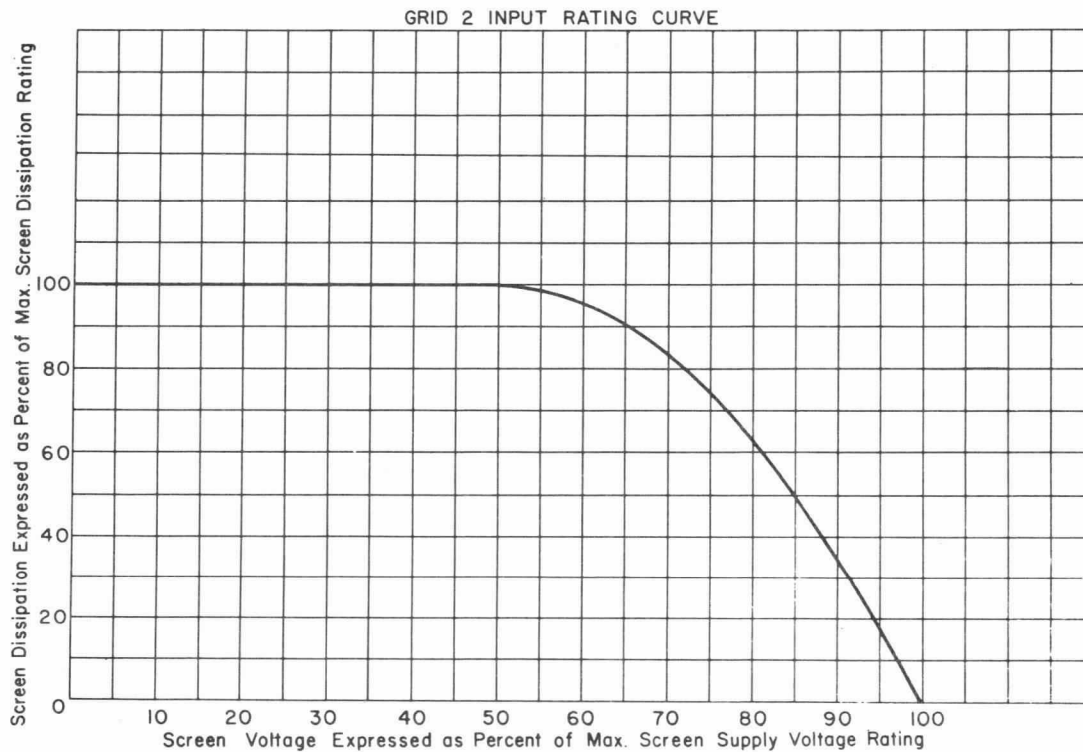
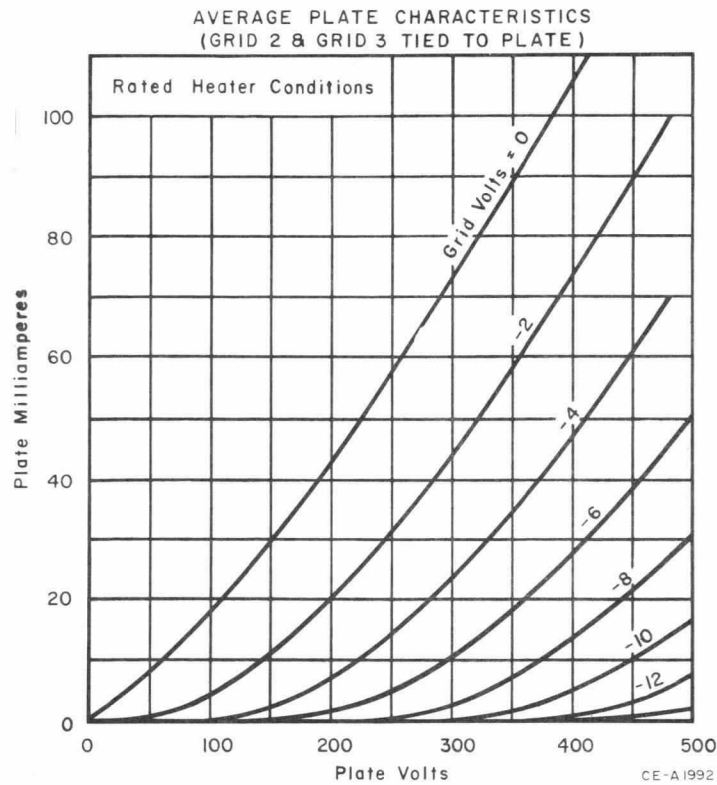
- Grids 2 and 3 connected to plate.
- Life Test Conditions:

Filament Volts = 13.0	Grid 1 Volts = -4.0
Plate Volts = 250	Grid 3 Volts = 0
Grid 2 Volts = 250	Cathode ohms = 0
Grid 1 Resistor = 250K	Heater to Cathode Volts = -200

 Cathode-Interface Impedance Test:
 As detailed in ASTM-F300-61T; appendix III
 with Filament Volts = 11.4
- For plate current of 10μa.







The information contained herein is supplied without assuming responsibility for infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Westinghouse Electric Corporation.

WESTINGHOUSE ELECTRIC CORPORATION, ELECTRONIC TUBE DIVISION, ELMIRA, NEW YORK