

SHARP-CUTOFF PENTODE

7-PIN MINIATURE TYPE

For use in mobile communications equipment operating from 6-cell storage-battery systems. Useful as if or rf amplifier at frequencies up to 45 Mc.

GENERAL DATA
Electrical:
Heater, for Unipotential Cathode: Voltage range 12 to 15 ac or dc volts Current (Approx.) at 13.5 volts 0.15 amp Direct Interelectrode Capacitances:
Without With
External External
Shield Shield
Grid No.1 to plate 0.02 max. 0.01 max. μμf
electrodes except plate 6.5 6.5 $\mu\mu$ f Plate to all other electrodes
except grid No.1 2 3 μμf
Characteristics, Class A ₁ Amplifier:
Heater Voltage
Grid-No.2 Current 2.8 ma Grid-No.1 (Control-Grid) Voltage (Approx.) for plate μ a = 1007 volts
Mechanical:
Operating Position
Pin 1-Grid No.1 Pin 2-Cathode Pin 3-Heater Pin 4-Heater Pin 5-Plate Pin 6-Grid No.2 Pin 6-Grid No.3, Internal Shield
$^{ m O}$ With external shield JETEC No.316 connected to cathode.



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	A	MPLIFIER	— с	lass	A ₁		
Maximum	Ratings, Abso	olute Valı	ies:				
GRID-No.	OLTAGE	ID) SUPPLY	 Y VOL	TAGE	• •	330 max.	volts volts
31110 110	. Z VOLIAGE	at					
For g For g	.2 INPUT: rid-No.2 volta rid-No.2 volta	ages up to ages betwe	o 165 een 1	5 volt 165	s.	0.5 max.	. watt
VOL	ts and 330 vo						Section
PEAK HE	ISSIPATION ATER—CATHODE V	VOLTAGE:			• •	2 max.	. watts
	r positive wi					120 max.	volts
C	HARACTERISTIC	S RANGE V	ALUES	FOR	EQUIPME	NT DESI	3N
				Note	Min.	Max.	
Heater (Current			1	0.138	0.164	amp
	nductance			1,2		7400	μ mhos
Plate C	urrent			1,3		12.5	ma
	.2 Current			1,3	1.6	4	ma
	Grid-No.1 Cu			1,4	-	-1	μ a
	Cathode Leaka		t:				
Heate	r negative wi	th					
	pect to catho			1,5	-	20	μ a
	r positive wi						
	pect to catho	de		1,5	_	20	μ a
Leakage	Resistance:						
	en grid-No.1						
	er electrodes			1 6	EΩ		
Potwo	ether en plate and	all ather	• •	1,6	50	_	megohms
	ctrodes tied			1.7	50	_	megohms
616	ctiodes tied	together	• •	1,7	50		megorins
Note 1:	With ac or de h	heater volt:	s = 1	3.5.			
Note 2:	With dc plate- grid No.3 con (ohms) = 180, a	and cathode	-bypa:	ss capa	icitor $\{\mu$	f) = 1000	•
Note 3:	With dc plate-s grid No.3 conn (ohms) = 180.						
Note 4:	With dc plate connected to ca	volts = 20 athode at s	10, gi ocket	rid-No . and o	.2 volts	= 150, q	grid No.3 -1.5.
Note 5:	With 100 volts						
Note 6:	With grid-No.1 electrodes tied	1 100 volts				pect to a	all other
Note 7:	With plate 300	volts nega	ative	with	respect t	o all ot	her elec-
	trodes tied to	gether.					



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SPECIAL TESTS & PERFORMANCE DATA

Heater-Cycling Life Performance:

This test is performed on a sample lot of tubes from each production run. A minimum of 2000 cycles of intermittent operation is applied under the following conditions: heater volts = 17 cycled one minute on and four minutes off, heater 135 volts negative with respect to cathode, and all other elements connected to ground. At the end of this test, tubes are checked for heater—cathode shorts and open circuits.

Low-Frequency Vibration Performance:

This test is performed on a sample lot of tubes from each production run under the following conditions: heater volts = 13.5, plate-supply volts = 200, grid No.3 connected to cathode, grid-No.2 volts = 150, grid-No.1 volts = -2, plate load resistor (ohms) = 2000, and vibrational acceleration of 2.5 g at 25 cps. In this test, the rms output voltage must not exceed 250 millivolts.

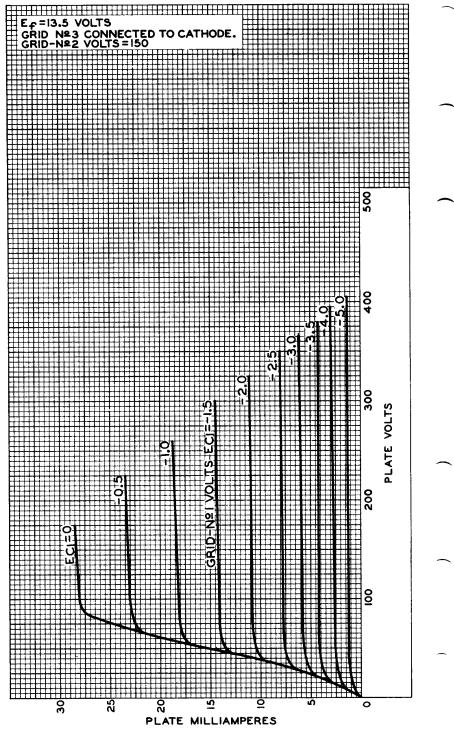
500-Hour Intermittent Life Performance:

This test is made on a sample lot of tubes from each production run to insure high quality of the individual tube and to guard against epidemic failures. Life testing is conducted under the following conditions: heater volts = 15 and maximum-rated plate dissipation and grid-No.2 input.





AVERAGE PLATE CHARACTERISTICS

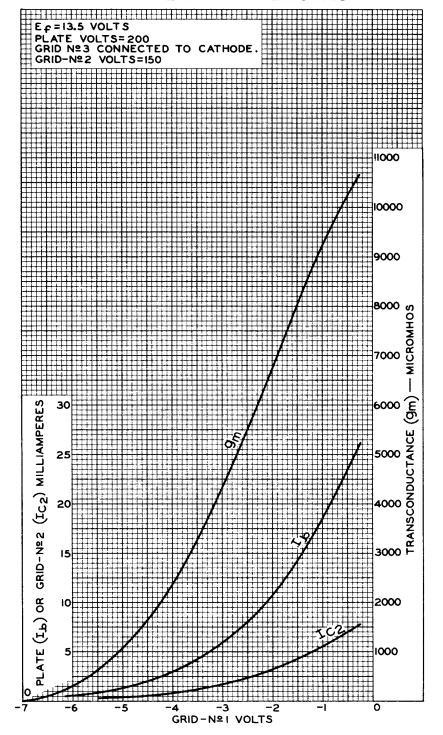


ELECTRON TUBE DIVISION RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9791



AVERAGE CHARACTERISTICS



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