



MEDIUM-MU TWIN TRIODE

FREQUENCY DIVIDER IN COMPUTER SERVICE and "ON-OFF" CONTROL SERVICE

Values are for Each Unit

Maximum Ratings, Absolute Values:

PLATE VOLTAGE	200	max.	volts
GRID VOLTAGE:			
Negative bias value	100	max.	volts
Positive bias value	1	max.	volt
DC POSITIVE GRID CURRENT.	2	max.	ma
DC CATHODE CURRENT.	16	max.	ma
PLATE DISSIPATION	1	max.	watt
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	180	max.	volts
Heater positive with respect to cathode	180	▲max.	volts
BULB TEMPERATURE (At hottest point on bulb surface).	120	max.	°C

Maximum Circuit Values:

Grid-Circuit Resistance:			
For fixed-bias operation.	0.1	max.	megohm
For cathode-bias operation.	0.5	max.	megohm

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	Note	Min.	Max.	
Heater Current.	1	0.138	0.162	amp
Plate Current (Each unit) . .	1,2	4.8	5.5	ma
Plate Current (Each unit) . .	1,3	3.6	5.6	ma
Plate Current (Each unit) . .	1,2,4	-	100	μamp
Transconductance.	1,2,3	2700	4500	μhos
Reverse Grid Current (Units in parallel).	1,5	-	1	μamp
Leakage Resistance (Each unit):				
Between grid and all other electrodes.	1,6	100	-	megohms
Between plate and all other electrodes.	1,7	100	-	megohms
Heater-Cathode				
Leakage Current:				
Heater negative with respect to cathode.	1,8	-	20	μamp
Heater positive with respect to cathode.	1,8	-	20	μamp
Difference in Grid Voltage				
Between Units	1,2,9	-	1	volt
Contact Potential	1,10	-	1	volt
Amplification Factor (Each unit).	1,2	23	31	

Note 1: With 12.6 volts ac or dc on heater (series arrangement).

▲ The dc component must not exceed 90 volts.

→ Indicates a change.



62II

62II

MEDIUM-MU TWIN TRIODE

- Note 2: With plate-supply volts = 150, plate-circuit resistance (ohms) = 20,000, and grid-circuit resistance (ohms) = 47,000. Each unit tested separately. Unit not under test connected to ground.
- Note 3: With plate-supply volts = 100, cathode resistor (ohms) = 470, and cathode bypass capacitor of 1000 μ F. Each unit tested separately. Unit not under test connected to ground.
- Note 4: With grid volts = -10.
- Note 5: With plate-supply volts = 150, cathode resistor (ohms) = 470, and grid-circuit resistance (megohm) = 0.5.
- Note 6: With grid 100 volts negative with respect to all other electrodes tied together.
- Note 7: With plate 300 volts negative with respect to all other electrodes tied together.
- Note 8: With 100 volts dc between heater and cathode and units connected in parallel.
- Note 9: With grid voltage adjusted for plate current of 100 μ amp.
- Note 10: With plate volts = 100, grid current (μ amp) = 0.1, and grid-circuit resistance (megohm) = 0.1. Each unit tested separately. Unit not under test connected to ground.

SPECIAL RATINGS & PERFORMANCE DATA

Heater-Cycling Life Performance:

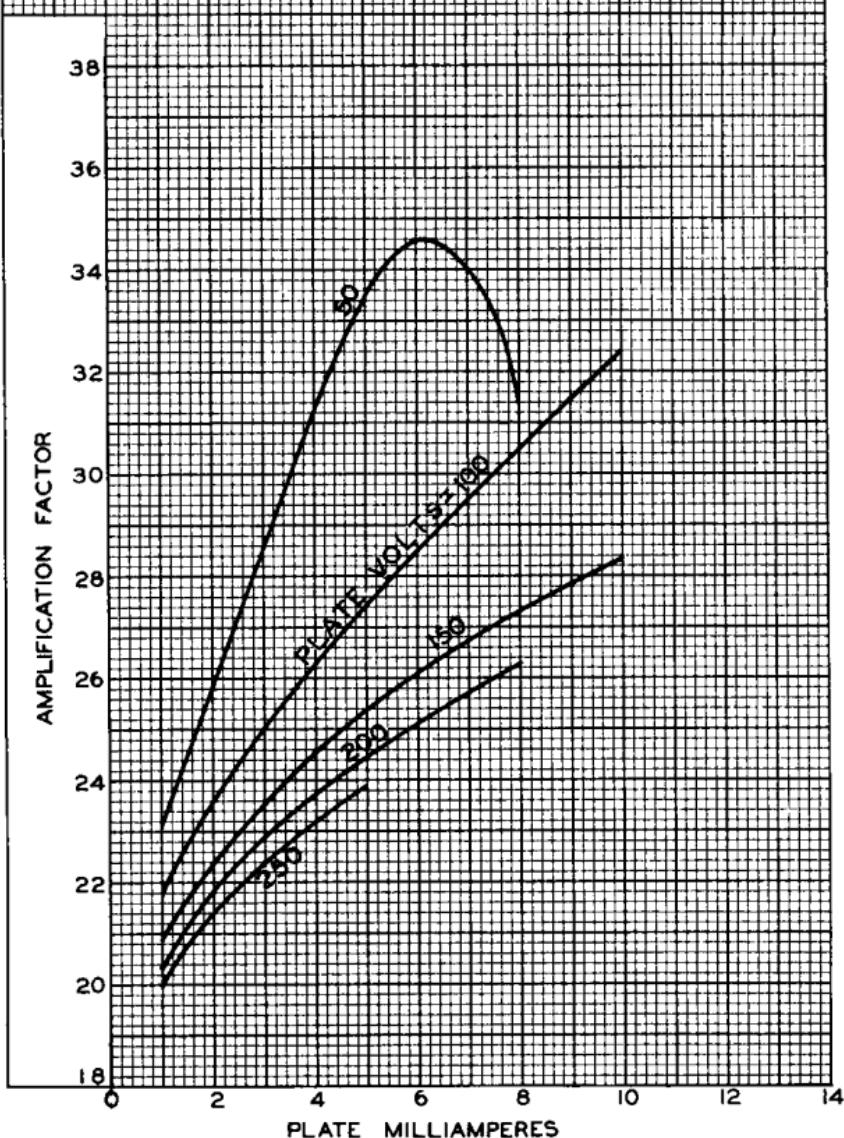
Cycles of Intermittent Operation. . . . 2000 min. cycles
For conditions: Series heater arrangement, heater volts = 17, cycled 1 minute on and 4 minutes off, heater positive with respect to cathode by +100 volts dc, plate volts = 0, and grid volts = 0.

← Indicates a change.

6211



6211

AVERAGE CHARACTERISTICS
FOR EACH UNITE_f = 12.6 VOLTS
SERIES HEATER ARRANGEMENT

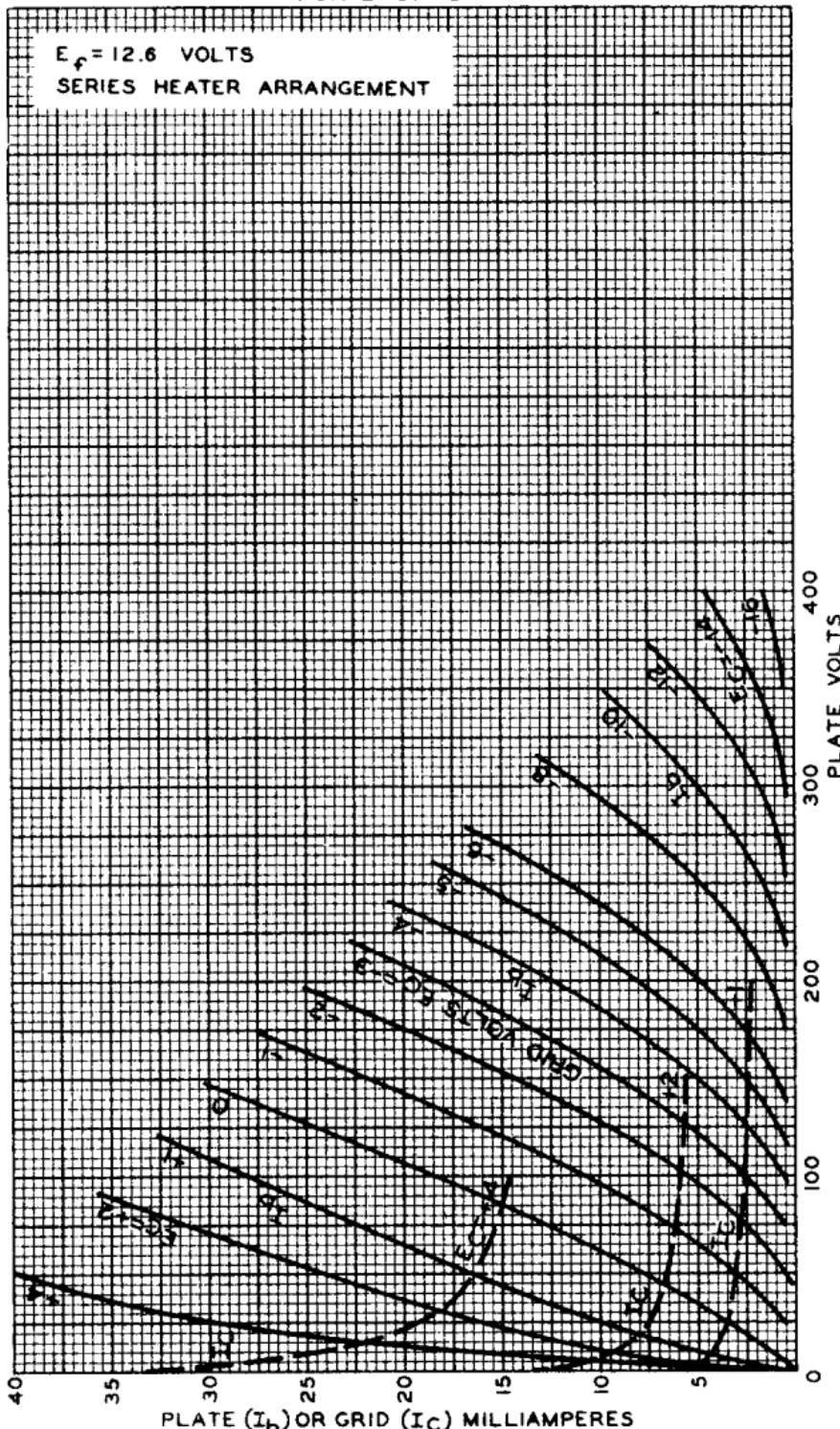
RCA

6211

6211

AVERAGE PLATE CHARACTERISTICS
FOR EACH UNIT

$E_F = 12.6$ VOLTS
SERIES HEATER ARRANGEMENT



JULY 9, 1952

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-7822

62II

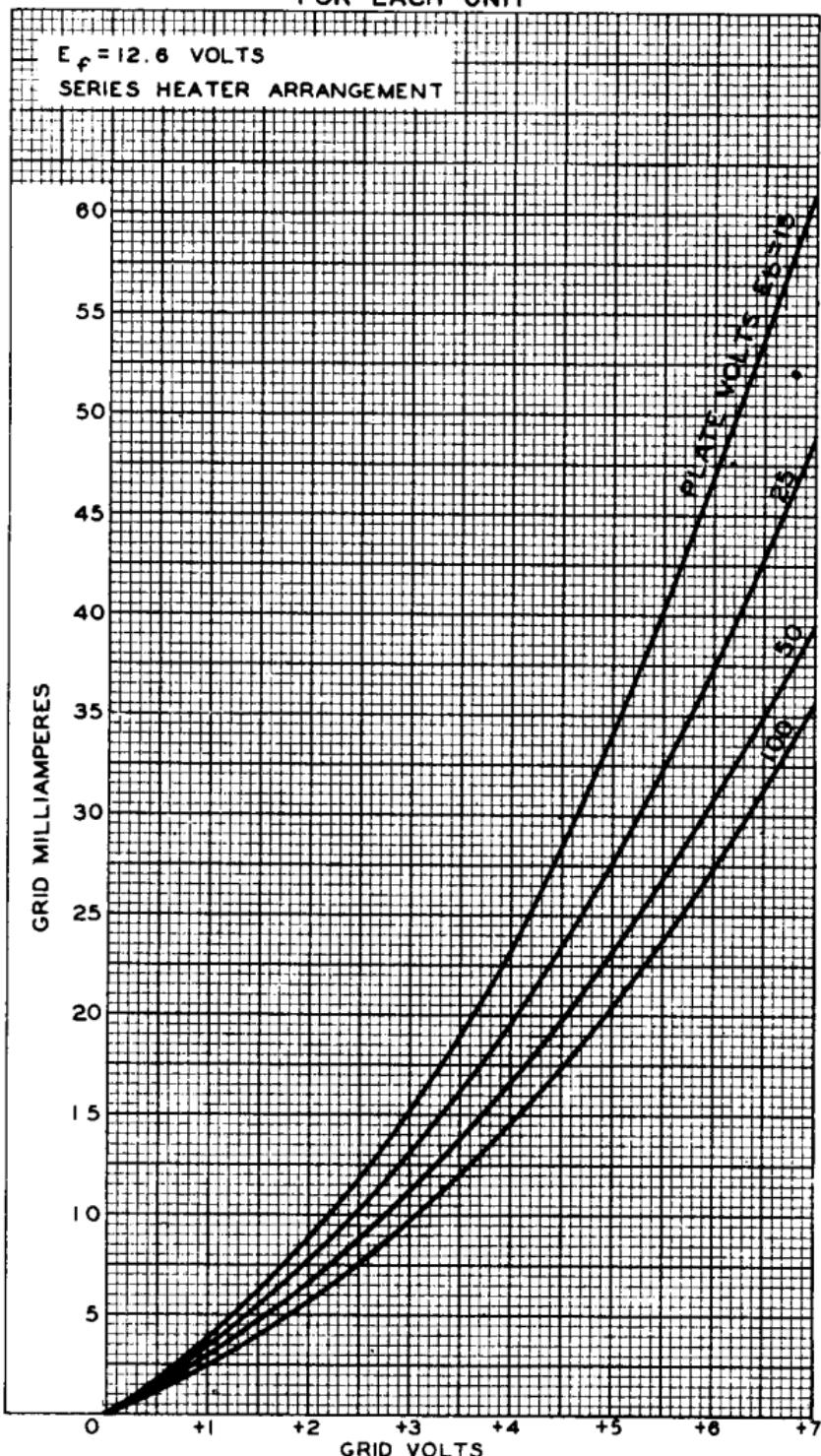
62II

RCA

AVERAGE CHARACTERISTICS
FOR EACH UNIT

$E_f = 12.6$ VOLTS

SERIES HEATER ARRANGEMENT



JAN.6,1953

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-7823RI