Twin Power Triode

GENERAL DATA

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Electrical:							
Heater, for Unipotential Cathode: Voltage (AC or DC)							
Mechanical:							
Operating Position							
↓ A							
Pin 1 - Heater Pin 2 - Grid of Unit No.2 Pin 3 - Plate of Unit No.2 Pin 4 - Cathode Pin 5 - Plate of Unit No.1 Pin 6 - Grid of Unit No.1 Pin 7 - Heater							
IA' PLANE OF ELECTRODES OF EACH UNIT							
IS PARALLEL TO PLANE THROUGH AXIS OF TUBE AND AA'							
CONTROL AMPLIFIER							
Values are for each unit unless otherwise specified							
Maximum Ratings, Absolute-Maximum Values:							

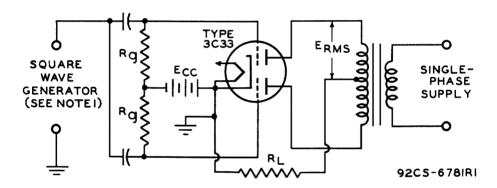
		-									
PEAK PLATE	VOLTAGE.								±2000 m	nax.	volts
DC GRID VOL	TAGE								-200 m	nax.	volts
PEAK CATHOD	E CURRENT	۲.						•	500 m	nax.	ma
AVERAGE PLA											
AVERAGE GRI											
PLATE DISSI	PATION .								15 m	nax.	watts

← Indicates a change.

PEAK HEATER—CATHODE VOLTAGE: Heater negative with respect to cathode 100 max Heater positive with respect to cathode 100 max BULB TEMPERATURE (At hottest point on bulb surface)	. volts							
Typical Operation in Accompanying Circuit:								
Plate-Supply Voltage $(E_{RMS})^{\bullet}$	volts volts volts megohm ohms ma							
Maximum Circuit Values:								
Grid-Circuit Resistance: When grid potential is always negative 0.5 When grid potential swings positive 0.03	megohm megohm							

Plates are operated 180° out of phase.

b Output-current wave-shape is essentially that of a half-sine wave.



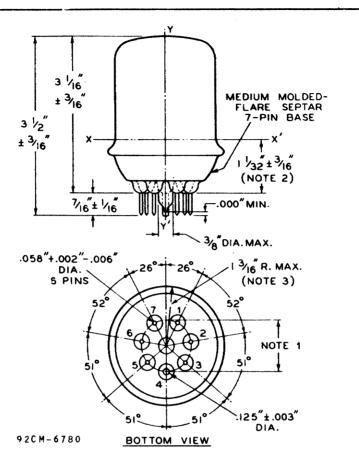
NOTE 1: VOLTAGE DELIVERED BY SQUARE-WAVE GENERATOR TO THE PARALLELED GRIDS SHOULD BE IN PHASE WITH THE PLATE VOLTAGE ON ONE OF THE UNITS TO PERMIT CONDUCTION THROUGH THAT UNIT WITH RESULTANT CURRENT FLOW THROUGH $R_{\rm L}$, AND SHOULD BE REVERSIBLE IN PHASE TO PERMIT CONDUCTION THROUGH THE OTHER UNIT WITH RESULTANT CURRENT FLOW THROUGH $R_{\rm L}$.

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TWIN-TRIODE POWER AMPLIFIER



THE REFERENCE AXIS YY' IS DEFINED AS THE AXIS OF THE BASE-PIN GAUGE DESCRIBED IN NOTE 1.

NOTE 1: ANGULAR VARIATIONS BETWEEN PINS AND VARIATION IN PINCIRCLE DIAMETER ARE HELD TO TOLERANCES SUCH THAT PINS WILL ENTER TO A DISTANCE OF 0.375" A FLAT-PLATE BASE-PIN GAUGE HAVING SIX HOLES 0.0800" ± 0.0005" AND ONE HOLE 0.1450" ± 0.0005" ARRANGED ON A 1.0000" ± 0.0005" CIRCLE AT SPECIFIED ANGLES WITH TOLERANCE OF ±5" FOR EACH ANGLE. GAUGE IS ALSO PROVIDED WITH A HOLE 0.500" ± 0.010" CONCENTRIC WITH PIN CIRCLE WHOSE CENTER IS ON THE AXIS YY".

NOTE 2: A FLAT-PLATE FLANGE GAUGE WITH HOLE 2.063" - 0.000" + 0.003" IS LOWERED OVER TUBE SEATED IN BASE-PIN GAUGE SO THAT THE HOLE AXIS IS COINCIDENT WITH AXIS YY' WITHIN 0.150", AND SO THAT THE BOTTOM SURFACE OF THE FLANGE GAUGE IS PARALLEL TO THE TOP SURFACE OF THE BASE-PIN GAUGE, AND UNTIL THE FLANGE GAUGE RESTS ON THE TUBE-FLANGE SEAL AT POSITION XX'. THE PERPENDICULAR DISTANCE BETWEEN THE TWO GAUGES WILL BE AS SHOWN.

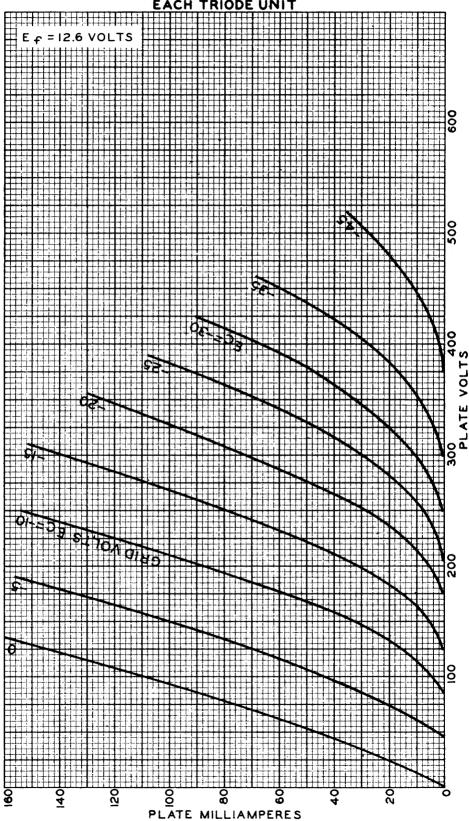
NOTE 3: MINIMUM DIAMETER OF TUBE-SEAL FLANGE WILL BE SUCH THAT A RING GAUGE HAVING AN INSIDE DIAMETER OF 2.125" - 0.000" + 0.003" AND THICKNESS OF 0.125" ± 0.010" WILL NOT PASS THE FLANGE WHEN TRIED AT ANY ANGLE.

3030

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AVERAGE PLATE CHARACTERISTICS EACH TRIODE UNIT



JULY 5, 1946

TUBE DEPARTMENT

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