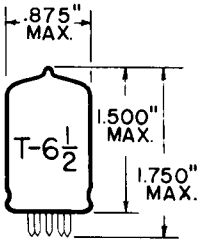
TUNG-SOL

DOUBLE TRIODE

MINIATURE TYPE



GLASS BULB

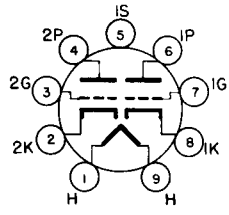
MINIATURE BUTTON
9 PIN BASE E9-1
OUTLINE DRAWING
JEDEC 6-1

COATED UNIPOTENTIAL CATHODE

FOR

APPLICATIONS IN THE LOW
TO VHF FREQUENCY RANGE

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM
JEDEC 8CJ

THE 2C51 COMBINES TWO INDEPENDENT AND SHIELDED, MEDIUM-MU, INDIRECTLY HEATED CATHODE TYPE TRIODES IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS INTENDED FOR USE IN AMPLIFIER, MIXER, OSCILLATOR, MULTIVIBRATOR AND CLAMP CIRCUITS. THE USEFUL RANGE EXTENDS FROM LOW FREQUENCIES THROUGH THE VHF RANGE.

→ DIRECT INTERELECTRODE CAPACITANCES

EACH SECTION

	WITH SHIELD	WITHOUT SHIELD	
GRID TO PLATE: (G TO P)	1.3[A]	1.3	pf
INPUT: G TO (H+K+I.S.)	2.3[A]	2.2	pf
OUTPUT: P TO (H+K+I.S.)	1.3[A]	1.0	pf
PLATE TO PLATE	0.03[B]	0.04	pf

A
PIN #5 & EXTERNAL SHIELD #315 CONNECTED TO CATHODE PIN OF SECTION UNDER TEST. ELEMENTS OF OTHER SECTION GROUNDED.

B
PIN #5 & EXTERNAL SHIELD #315 CONNECTED TO GROUND WITH OTHER ELEMENTS.

HEATER CHARACTERISTICS AND RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	300	MA.
MAXIMUM HEATER-CATHODE VOLTAGE		90	VOLTS

CONTINUED ON FOLLOWING PAGE

→ INDICATES A CHANGE.

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN CENTER VALUES – SEE EIA STANDARD RS-239

EACH SECTION

PLATE VOLTAGE	300	VOLTS
PLATE POSITIVE DC GRID VOLTAGE*	0	VOLTS
PLATE DISSIPATION	1.5	WATTS
CATHODE CURRENT	18	MA.
GRID CIRCUIT RESISTANCE*	1	MEGOHM

→ TYPICAL OPERATING CHARACTERISTICS

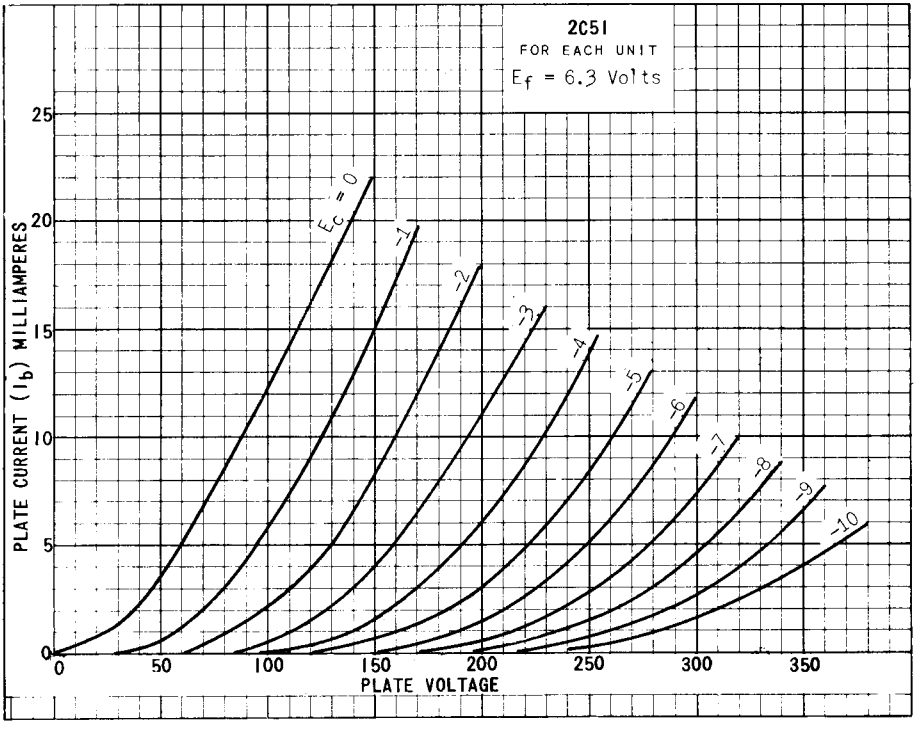
CLASS A_1 AMPLIFIER

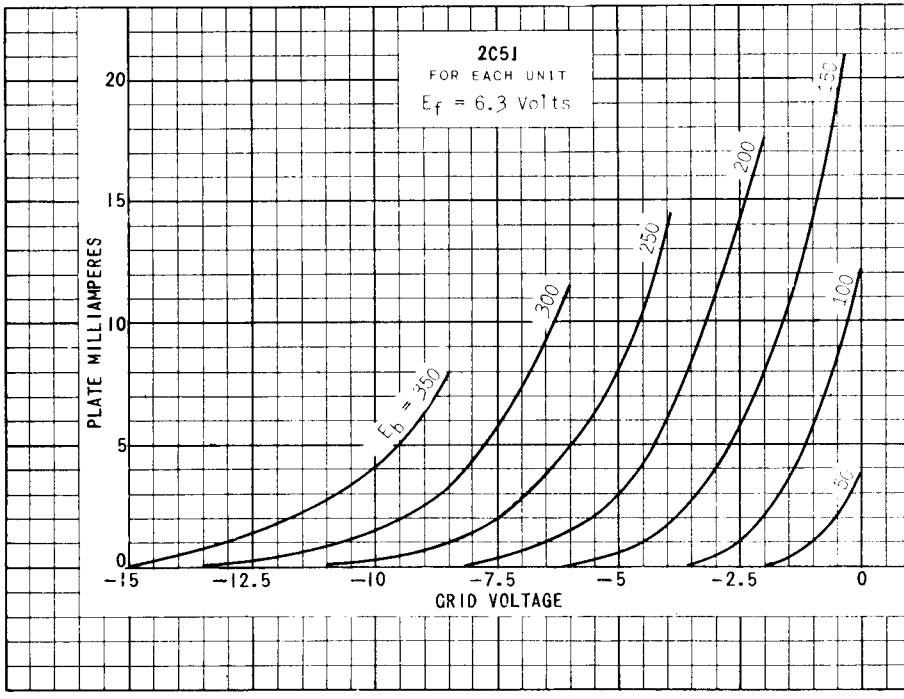
EACH SECTION

PLATE VOLTAGE	150	VOLTS
CATHODE BIAS RESISTOR	240	OHMS
PLATE CURRENT	8.2	MA.
PLATE RESISTANCE (APPROX.)	6500	OHMS
TRANSCONDUCTANCE	5500	μMHOS
AMPLIFICATION FACTOR	35	
GRID #1 VOLTAGE FOR Ib = 10 μA	-8	VOLTS

*INDICATES AN ADDITION.

→ INDICATES A CHANGE.





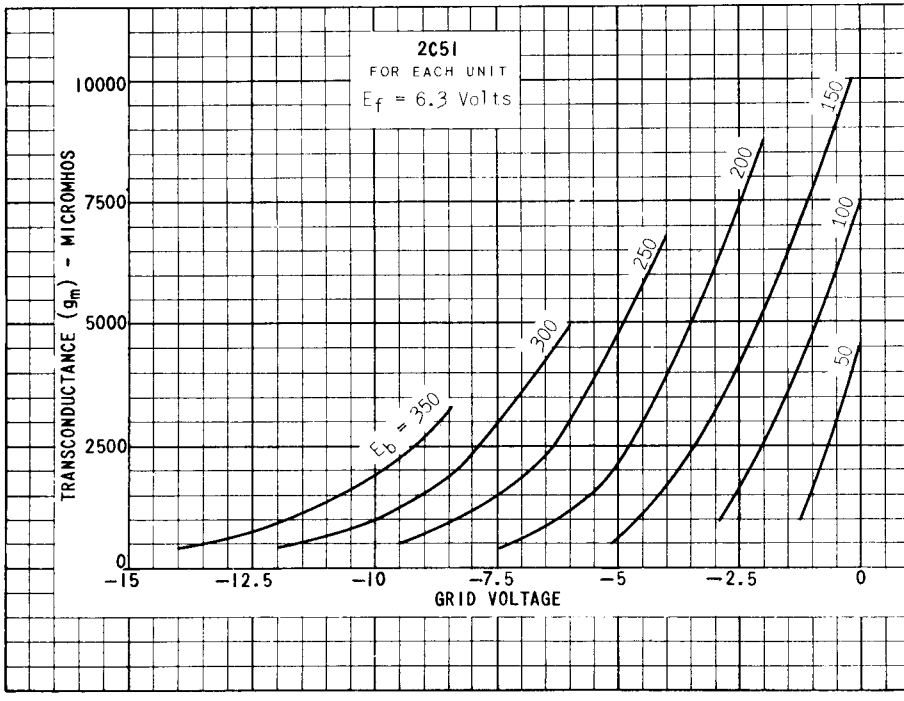


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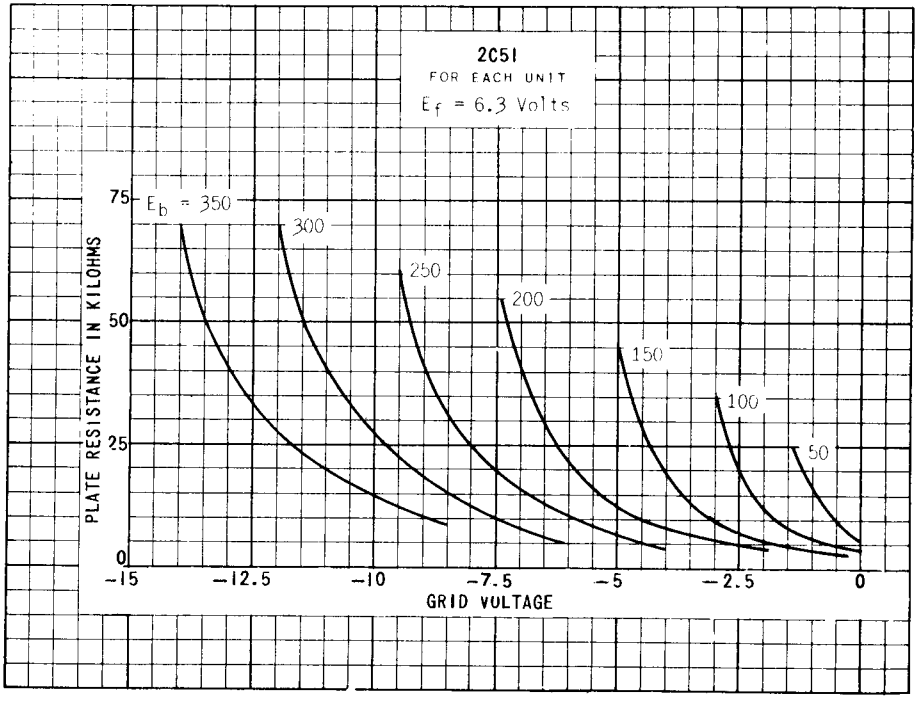
PLATE
2645
MAY 1
1951

2C51



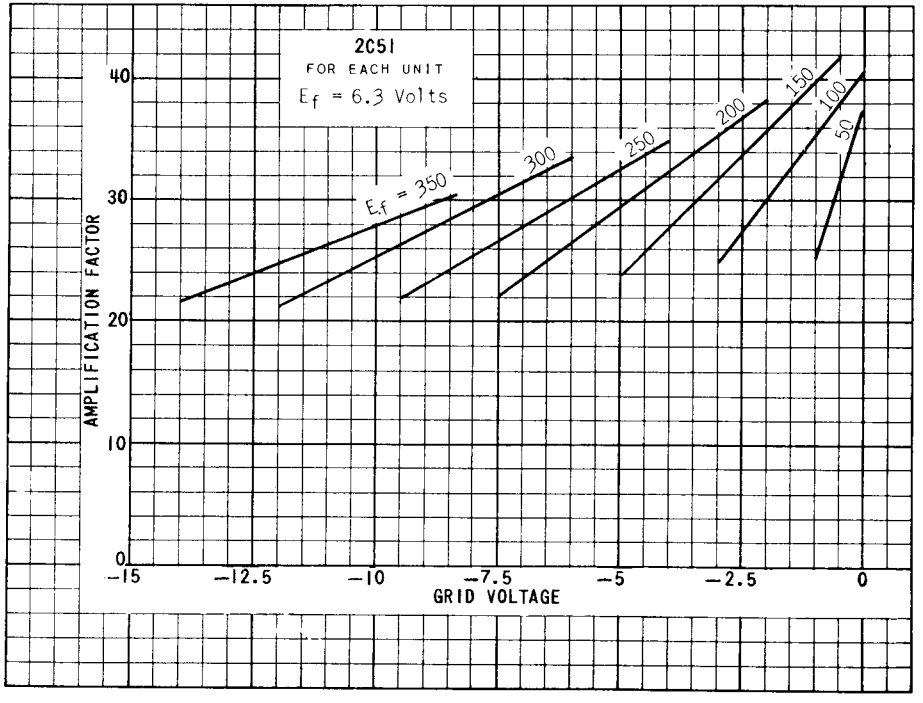


PLATE
2646
MAY 1
1951