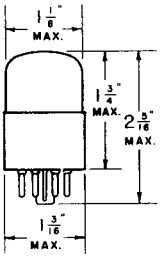
TUNG-SOL



CATHODE RAY TUNING INDICATOR

UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.15 AMPERE
AC OR DC

G-7A

GLASS BULB

SMALL 7 PIN OCTAL BASE

THE TUNG-SOL 6AF6G CONSISTS OF A CIRCULAR FLUORESCENT SCREEN WITH TWO INDEPENDENT INDICATING SHADOW ANGLES, EACH CONTROLLED BY A RAY-CONTROL ELECTRODE. WHEN THE 6AF6G IS USED AS A TUNING INDICATOR THE SHADOW ANGLE IS CONTROLLED BY POSITIVE VOLTAGES APPLIED TO THE RAY CONTROL ELECTRODES.

OPERATING CONDITIONS AND CHARACTERISTICS

TARGET VOLTAGE MAX.	135	VOLTS
TARGET VOLTAGE MIN.	90	VOLTS
RAY-CONTROL ELECTRODE SUPPLY VOLTAGE MAX.	135	VOLTS

TUNING INDICATOR

TARGET VOLTAGE	100	135	VOLTS
TARGET CURRENT [T]	0.9	1.5	MA.
RAY-CONTROL ELECTRODE VOLTAGE [P]	60	81	APPROX. VOLTS
RAY-CONTROL ELECTRODE VOLTAGE [PP]	0	0	APPROX. VOLTS

[T] WITH 0 VOLTS ON RAY-CONTROL ELECTRODES. SUBJECT TO WIDE VARIATION.
[P] FOR 0° SHADOW ANGLE PRODUCED BY EITHER RAY-CONTROL ELECTRODE.
[PP] FOR 100° SHADOW ANGLE PRODUCED BY EITHER RAY-CONTROL ELECTRODE.
THE PLANE OF THE CONTROL ELECTRODES PASSES THROUGH PINS #3 AND #7.

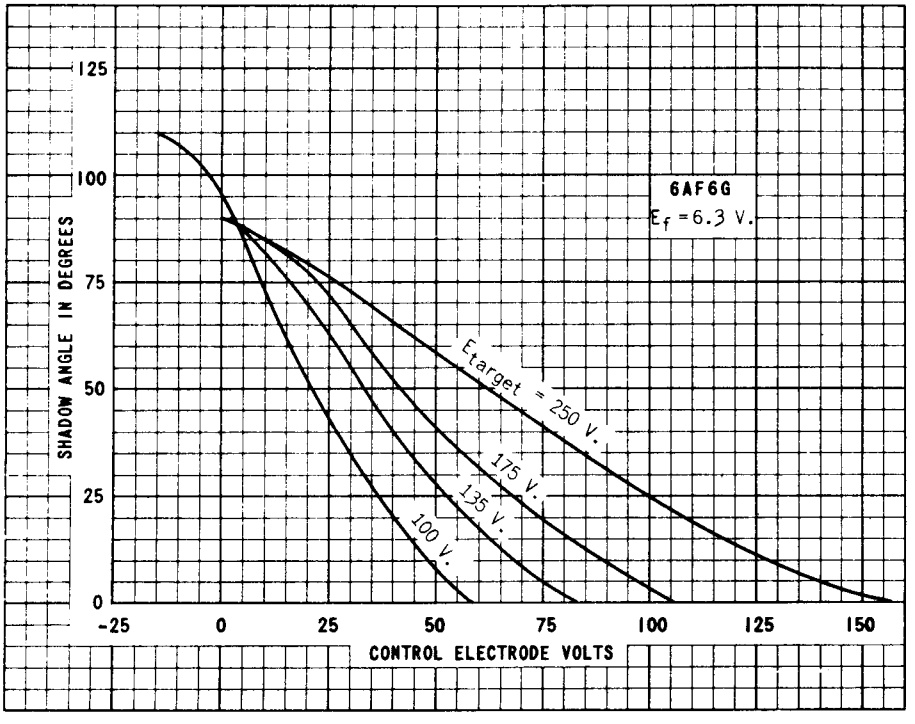
NOTE: A DOUBLE TRIODE, SUCH AS THE 6C8G OR THE 6F8G, CAN BE USED TO OBTAIN TWO SENSITIVITIES FOR A TUNING INDICATOR BY APPLYING FULL A.V.C. VOLTAGE TO ONE TRIODE AND 1/10 OF THE A.V.C. VOLTAGE TO THE OTHER.

IN AC-DC SUPERHETERODYNE RECEIVERS A SHADOW ANGLE VARIATION OF 0 TO 90° WITH A.V.C. ACTION MAY BE OBTAINED WITHOUT AN AMPLIFIER TUBE BY RAISING THE CATHODE OF THE 6AF6G TO +30 VOLTS, SUPPLYING I F TUBE SCREEN THROUGH A 50 000 OHM RESISTOR AND CONNECTING THE CONTROL ELECTRODES TO THE SCREEN.

PRINTED IN U. S. A.

PLATE
238-1

DEC.12
1938



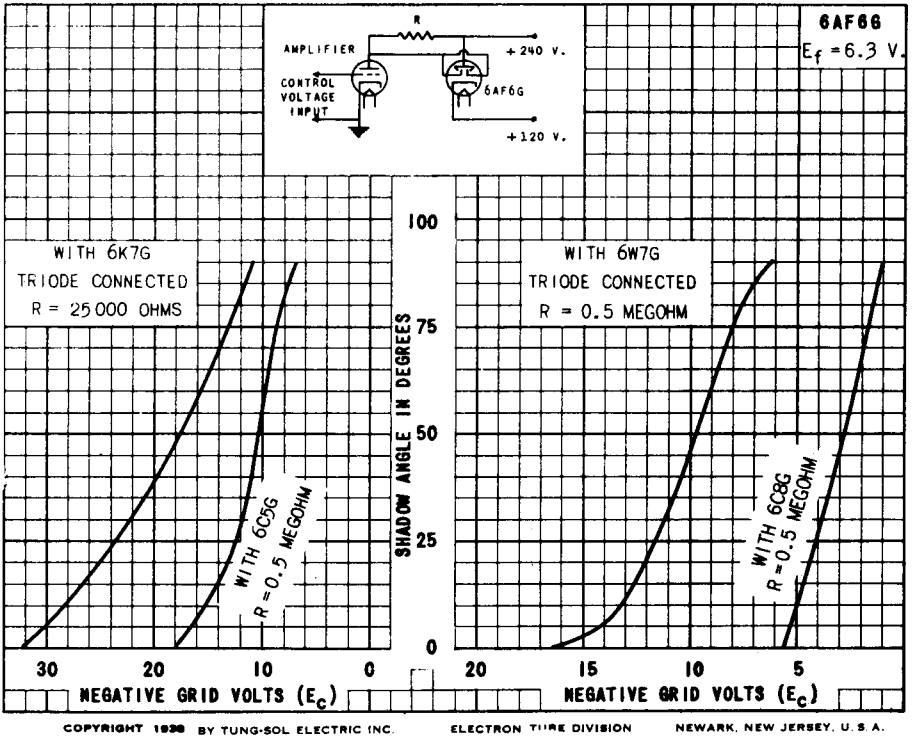
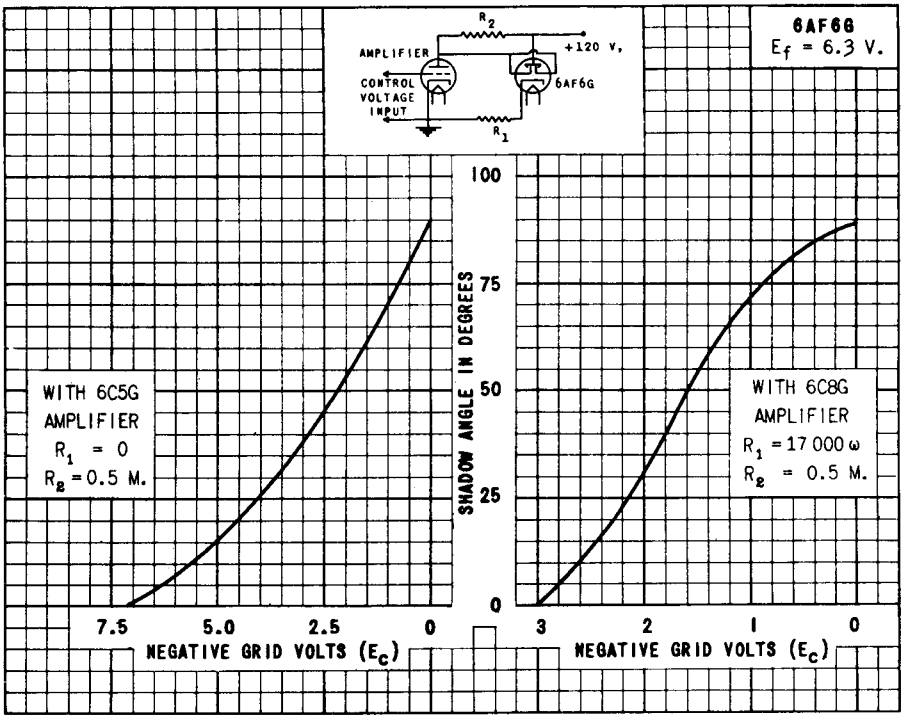


PLATE 283-1

JAN. 3 1939

6AF6 G



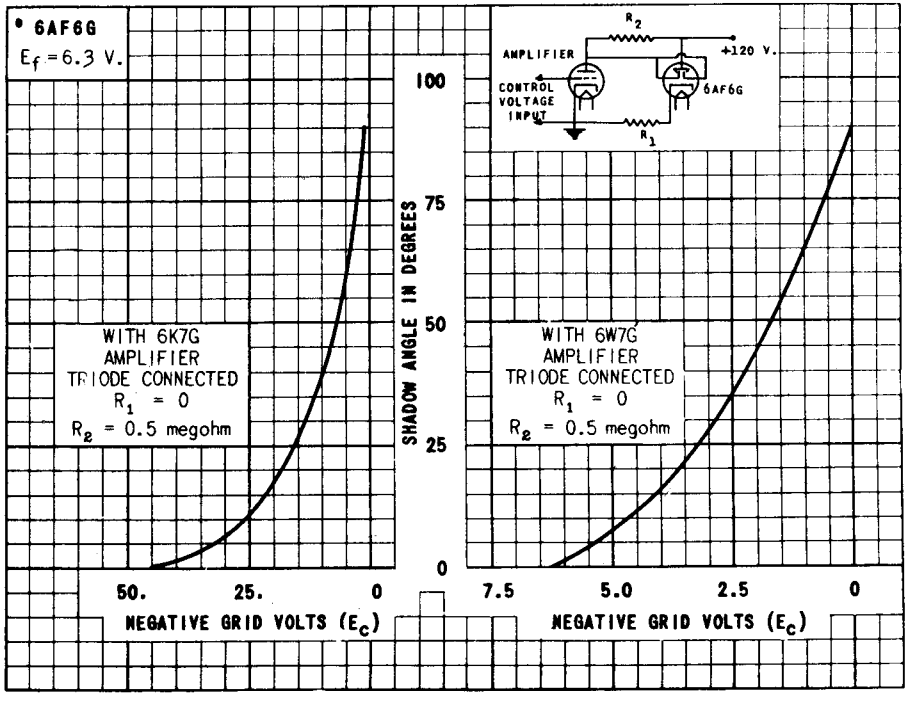


PLATE 284-1

 ELECTRON TUBE DIVISION NEWARK, NEW JERSEY, U. S. A.