

186(5)

NATIONAL UNION
TYPE 12Q7G
TWIN DIODE-TRICDE AMPLIFIER
Indirectly-heated Cathode

Heater Voltage.....	12.5 volts
Heater Current.....	0.150 amp.
Plate Voltage.....	250 max. volts
Grid Voltage.....	-3 volts
Plate Current.....	1.1 ma.
Mutual Conductance.....	1200 umhos
Amplification Factor.....	70
Plate Resistance.....	58,000 ohms

Diode Units:

Peak Plate Current.....	8 max. ma.
approx. Plate Resistance (at 0.25 ma.)	6500 ohms

Resistance Coupled Amplifier:

Plate Supply.....	250 max. volts
Plate Load.....	0.25 megohm
Grid Resistor of Following Stage.....	0.5 megohm
Grid Bias).....	-2 volts
Cathode Biasing Resistor).....	4500 ohms
Approximate Gain.....	45

CAPACITANCES:

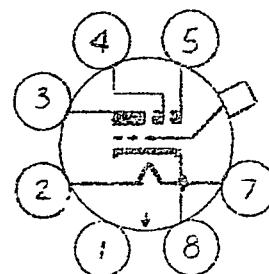
Grid-to-Cathode,.....	1.6 uuf.
Grid-to-plate.....	2.0 uuf.
Plate-to-Cathode.....	4 uuf.

MECHANICAL DATA:

Max. Overall Length.....	4-15/32"
Max. Seated Height.....	3-29/32"
Max. Diameter.....	1-9/16"
Bulb.....	ST-12
Base.....	Small Octal 7-Pin
Cap.....	Miniature

BASING:

Pin No. 1 - No Connection
Pin No. 2 - Heater
Pin No. 3 - Plate
Pin No. 4 - Diode Plate
Pin No. 5 - Diode Plate
Pin No. 7 - Heater
Pin No. 8 - Cathode
Cap - Grid



7V
BASE-Bottom View