186(5)

NATIONAL UNION
TYPE 12Q7G
TWIN DIODE-TRIODE 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:

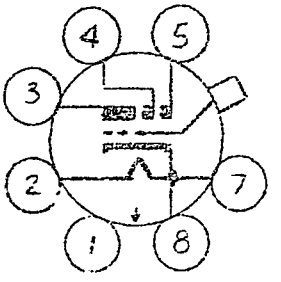
Grid-to-Cathode	1.6	uuf.
Grid-to-plate	2.0	uuf.
Plate-to-Cathode	4	uuf.

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