from RMA release #186, May 22, 1939

NATIONAL UNION

TYPE 12K7G

PENTODE VOLTAGE AMPLIFIER

REMOTE CUT-OFF

Indirectly-heated Cathode

CLASS A AMPLIFIER

Operating Conditions and Characteristics:

| | | | |
|---|---|---|---|
| Heater Voltage | | 12.5 | volts |
| Heater Current | | 0.150 | amp. |
| Plate Voltage | 250 | 250 | max. volts |
| Screen Voltage | 100 | 125 | max. volts |
| Suppressor Voltage | 0 | 0 | volts |
| Grid Voltage | -3 | -3 | volts |
| Plate Current | 7 | 10.5 | ma. |
| Screen Current | 1.7 | 2.6 | ma. |
| Mutual Conductance | 1450 | 1650 | umhos |
| Amplification Factor | 1160 | 990 | |
| Plate Resistance | 0.8 | 0.6 | megohm |
| Grid Bias for Mutual Conductance = 2 umhos | -42.5 | -52.5 | volts |

CAPACITANCES:*

| | | |
|---|---|---|
| Grid-to-Plate | 0.007 | uuf. max. |
| Input | 5.0 | uuf. |
| Output | 12.0 | uuf. |

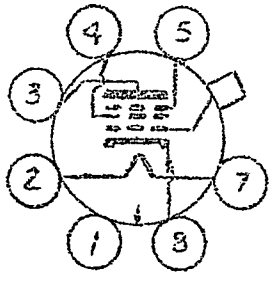
*Form-fitting shield

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 - Screen
Pin No. 5 - Suppressor
Pin No. 7 - Heater
Pin No. 8 - Cathode & Internal Shield
Cap - Grid

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BASE-Bottom View