BEAM PENTODE
MINIATURE TYPE
COATED UNIPOTENTIAL CATHODE
HEATER
25±10% VOLTS 0.30 AMP.
AC OR DC
ANY MOUNTING POSITION
FOR SERIES STRING


DIRECT INTERELECTRODE CAPACITANCES — APPROX.
WITH NO EXTERNAL SHIELD

| GRID TO PLATE: G4 TO P | 0.6  μf |
| INPUT: G4 TO (H+K&G3+G2) | 13.0  μf |
| OUTPUT: P TO (H+K&G3+G2) | 8.5  μf |

RATINGS
INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

| HEATER CURRENT | 300±20 MA. |
| MAXIMUM HEATER-CATHODE VOLTAGE: | |
| HEATER NEGATIVE WITH RESPECT TO CATHODE DC AND PEAK | 200 VOLTS |
| HEATER POSITIVE WITH RESPECT TO CATHODE DC | 100 VOLTS |
| DC AND PEAK | 200 VOLTS |
| MAXIMUM PLATE VOLTAGE | 150 VOLTS |
| MAXIMUM GRID #2 VOLTAGE | 130 VOLTS |
| MAXIMUM PLATE DISSIPATION | 7 WATTS |
| MAXIMUM GRID #2 DISSIPATION | 1.4 WATTS |
| MAXIMUM POSITIVE DC GRID #1 VOLTAGE | 0 VOLTS |
| MAXIMUM GRID #1 CIRCUIT RESISTANCE: FIXED BIAS | 0.1 MEGOHM |
| CATHODE BIAS | 0.5 MEGOHM |
| MAXIMUM BULB TEMPERATURE (AT HOTTEST POINT ON BULB SURFACE) | 220 °C |

ALL ELECTRICAL DATA EXCEPT HEATER CHARACTERISTICS FOR TYPE 25C5 ARE IDENTICAL WITH THOSE OF TYPES 12C5, 12G05, 17C5, 50C5 AND 5085.

— INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A1 AMPLIFIER

PLATE VOLTAGE 120 VOLTS
GRID #2 VOLTAGE 110 VOLTS
GRID #1 VOLTAGE -5 VOLTS
PEAK AF GRID #1 VOLTAGE 8 VOLTS
ZERO-SIGNAL PLATE CURRENT 49 MA.
ZERO-SIGNAL GRID #2 CURRENT 4 MA.
MAXIMUM SIGNAL PLATE CURRENT 50 MA.
MAXIMUM SIGNAL GRID #2 CURRENT 8.5 MA.
PLATE RESISTANCE (APPROX.) 10 000 OHMS
TRANSCONDUCTANCE 7 500 MMHOS
LOAD RESISTANCE 2 500 OHMS
TOTAL HARMONIC DISTORTION 10 PERCENT
MAXIMUM SIGNAL POWER OUTPUT 2.3 WATTS

25C5
PENTODE CONNECTION
$E_f = 25$ Volts
$E_b = 110$ Volts
$E_{c2} = 110$ Volts
$E_{c1} = -7.5$ Volts
$E_{sig} = 5.3$ Volts RMS

POWER OUTPUT ($P_o$) - WATTS
TOTAL HARMONIC DISTORTION - PERCENT
LOAD RESISTANCE ($R_l$) - KILOHMS