

Power Pentode

7-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Current	0.100 ± 0.006	amp
Voltage (AC or DC) at heater amperes = 0.100	32	volts
Warm-up time (Average).	20	sec
Peak heater-cathode voltage:		
Heater negative with respect to cathode.	200 max.	volts
Heater positive with respect to cathode.	200 ^a max.	volts

Direct Interelectrode Capacitances

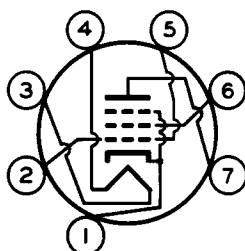
(Approx.):^b

Grid No.1 to plate.	0.6	pf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	12.0	pf
Plate to cathode & grid No.3, grid No.2, and heater	6.0	pf

Mechanical:

Operating Position.	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length.	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip).	2" ± 3/32"
Diameter.	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
Bulb.	T5-1/2
Base.	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW.	7CV

Pin 1 - Cathode,
Grid No.3
Pin 2 - Grid No.1
Pin 3 - Heater



Pin 4 - Heater
Pin 5 - Grid No.1
Pin 6 - Grid No.2
Pin 7 - Plate

AMPLIFIER — Class A₁Maximum Ratings, *Design-Maximum Values*:

PLATE VOLTAGE	150	max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	130	max.	volts
GRID-No.2 INPUT	1.2	max.	watts
PLATE DISSIPATION	5.4	max.	watts



32ET5A

Typical Operation and Characteristics:

Plate Voltage	110	volts
Grid-No.2 Voltage	110	volts
Grid-No.1 Voltage	-7.5	volts
Peak AF Grid-No.1 Voltage	7.5	volts
Zero-Signal Plate Current	30	ma
Zero-Signal Grid-No.2 Current	2.8	ma
Plate Resistance (Approx.)	21500	ohms
Transconductance	5500	μ mhos
Load Resistance	2800	ohms
Total Harmonic Distortion	10	%
Max.-Signal Power Output	1.2	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.1	max.	megohm
For cathode-bias operation	0.5	max.	megohm

^a The dc component must not exceed 100 volts.

^b Without external shield.

