



ELECTRONIC TUBE REFERENCE

42E

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Brimar companion designation to type 42, sharing its published power-pentode characteristics. Intended for receiver audio power-output service rather than small-signal amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 700 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	80000 Ω
TRANSCONDUCTANCE	0.0025 S
Power pentode.	

Explicit 42E companion designation on the Brimar 42/42E power-pentode sheet, sharing the same published characteristics.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1948 Brimar Radio Valve Manual

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1948 BRIMAR RADIO VALVE MANUAL

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	—
Plate Current	34 mA	—
Screen Voltage	250 V	—
Screen Current	6.5 mA	—
Control Grid Voltage	-16.5 V	—
Optimum Load	7000 ohm	—
Power Output	3.2 W	—
Harmonic Distortion	8 %	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	80000 ohm	—
Transconductance	2500 μ S	—