



ELECTRONIC TUBE REFERENCE

B543

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Philips directly heated output pentode with screen-grid operation, using a 5 V, 0.10 A filament and typical 200 V anode operation. Designed for receiver power-output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	45000 Ω
TRANSCONDUCTANCE	0.0013 S
AMPLIFICATION FACTOR	60
<i>Published ratings and characteristics promoted where semantically applicable; additional published values retained as section parameters.</i>	

Philips B543 is a directly heated output valve with screen-grid operation, intended for power output service. The sheet specifies a 5 V, 0.10 A filament and typical 200 V anode operation.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	200 V	Published datasheet value
Screen-grid voltage	150 V	Published datasheet value
Normal anode current	12 mA	Published datasheet value
Grid bias	-15 V	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum transconductance	—1.5 mA/V	Published datasheet value
Normal transconductance	1.3 mA/V	Published datasheet value
Internal resistance	45 kΩ	Published datasheet value
Amplification factor	60	Published datasheet value

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