

EF6

Voltage Pentode - Sharp Cutoff (single) electronic tube

Philips high-frequency sharp-cutoff pentode for fixed-gain RF voltage amplification in European receiver equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	P-SIDECONTACT	BASE PINS	8
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	2500000 Ω
TRANSCONDUCTANCE	0.005 S
MAXIMUM PLATE VOLTAGE	300 V
Published target-row operating and characteristic values reviewed.	

EF6 is listed in the supplied valve table as a HF pentode. Published operating and characteristic values were transcribed from its target row.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Published European table row
Screen voltage	100 V	Published European table row
Plate current	3 mA	Published European table row
Control-grid bias	2 V	Published European table row

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	2500000 ohm	Published European table row
Transconductance	5000 μ S	Published European table row
Heater/filament voltage	6.3 V	Published European table row
Heater/filament current	200 mA	Published European table row



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Heating
Heater current	200 mA	Heating
Maximum plate voltage	300 V	Promoted published datasheet value
$V_o - - \max,$	550 V	Limiting values
$V_a \max$	300 V	Limiting values
$V_o - - \max$	550 V	Limiting values
$V_g - \max$	125 V	Limiting values
$F_{ao} (g_e = + 0.3 \text{ l}) . . \max.$ —	1.3 V	Limiting values
Supply Anode Anode Screen- Screen Max. $Y_a =$	250 V	Limiting values

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1000000 Ω	Promoted published datasheet value
Transconductance	1800 μS	Promoted published datasheet value
Heater current $I_y =$	200 mA	Published datasheet value
$V_g, =$	100 V	Published datasheet value
Published electrical value	100 V	Published datasheet value
Anode voltage $V, =$	100 V	Published datasheet value
Screen-grid voltage. $V, = 100 \text{ vV}$	100 V	Published datasheet value
sid bias $T_y = -$	2 V	Published datasheet value
Anode current $I, =$	3 mA	Published datasheet value
Screen grid current $I, =$	8 mA	Published datasheet value
Mutual conductance $\S =$	18 mA/V	Published datasheet value
Internal resistance $R; =$	1 M Ω	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
of the grid bias for $V_a =$	150 V	Published datasheet value
$T_a = V_i =$	250 V	Published datasheet value
Supply Anode Anode Screen- Screen- Cathode Voltage 1, = }fvg' =	9250 V	Published datasheet value