PHILIPS

1AC6

מביי איתיהימים	תד	CONVERTER

Physical specifications

Filament

Base

Miniature button 7-pin

Bulb

Coated

Maximum overall length

2 1/8"

Maximum seated height

1 7/8"

Bulb length excluding tip Maximum diameter

1 1/2" ± 3/32" 3/4"

Mounting position

any

Basing connections -

JETEC basing designation

7DH

Pin 1 - filament

Bottom view

Pin 2 - plate

of base

Tube outline

Pin 3 - grid No.2

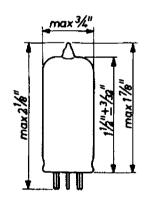
Pin 4 - grid No.1

Pin 5 - grid No.4

Pin 6 - grid No.3

Pin 7 - +filament and grid No.5





5-2

General Electrical Data

Filament	voltage	1.4 Volts
Filament	current	50 m amps

Direct Interelectrode Capacitances

Plate to all other electrodes	8.4 µµF
Grid No.3 to all other electrodes	7.5 µµF
Grid No.2 to all other electrodes	4.8 μμΕ
Grid No.1 to all other electrodes	3.9 µµF
Plate to grid No 1	mer. 0.11F

1AC6

Direct Interelectrode Capacitances (continued)							
Plate to grid No.3	max.	0.36	μμΕ				
Plate to grid No.2	max.	0.3	μμ F				
Grid No.2 to grid No.3		1.6	μμ F				
Grid No.1 to grid No.3	max.	0.2	• •				
Grid No.1 to grid No.2			μμΕ				
Ratings (Design center values)							
Battery voltage	max.	90	volts1)				
Plate voltage	max.	90	volts				
Plate dissipation	max.	0.15	watt				
Grid No.4 voltage		90					
Grid No.4 dissipation		0.03					
Grid No.2 voltage		60					
Grid No.2 dissipation	max.	0.2	watt				
Cathode current	max.	4	ma				
Grid No.3 circuit resistance	max.	3	megohms				
Grid No.1 circuit resistance		35,000	ohms				
Grid No.1 current starting point.	•						
Grid No.1 voltage at grid No.1 current = +0.3 μ amp	max.	-0.2	volt				
Filament voltage		1.1	volts				
Filament voltage	max.	1.6	volts				
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Characteristics of the oscillator section (grid No.1 connected to +filament)							
Plate voltage 63.5		85 v	olts				
Grid No.4 voltage 63.5		60 v	olts				
Grid No.3 voltage 0		0 v	olt				
Grid No.2 voltage 30		30 V	olts				
Grid No.2 current 2.2		2.5 ma	a				
Transconductance of grid No.1 with respect to grid No.2		900 m:	icromhos				
Amplification factor of grid No. 2 with respect 7.5 to grid No.1		7.5					

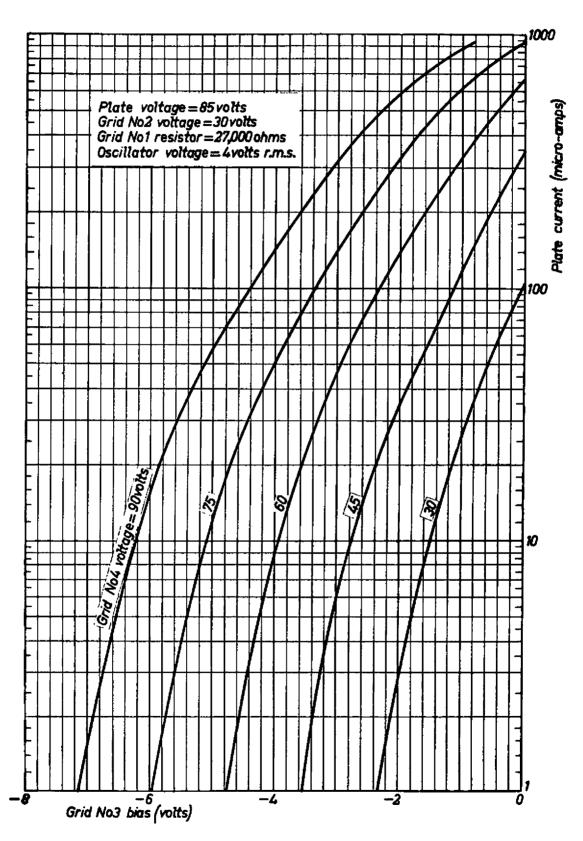
¹⁾ Absolute permissible value of the battery voltage is max. 110 volts.

Operating characteristics						
(separate excitation, no	impedance	in grid l	No.2 lead)			
Anode voltage 1)	63 .5	85	volts			
Grid No.4 voltage	63.5	60	volts			
Grid No.4 resistor	0	0.18	megohm			
Grid No.3 voltage	0	0	volts			
Grid No.2 voltage	30	30	volts			
Grid No.2 resistor	22,000	33,000	ohms			
Grid No.1 A.C.voltage	4	4	volts,rms			
Grid No.1 resistor	27,000	27,000	ohms 2)			
Plate current	0.70	0.65	ma			
Grid No.4 current	0.15	0.14	ma			
Grid No.2 current	1.55	1.65	ma			
Grid No.1 current	130	130	μamp			
Cathode current	2.5	2.6	ma			
Conversion conductance	300	325	micromhos			
Conversion conductance (grid No.3 voltage = -6 volts)	-	3.25	micromhos			
Conversion conductance (grid No.3 voltage = -4 volts)	3.0	-	micromhos			
Plate resistance	0.9	1.0	megohm			

¹⁾ Based on a battery voltage of 67.5 or 90 volts decreased with the negative bias for the output tube.

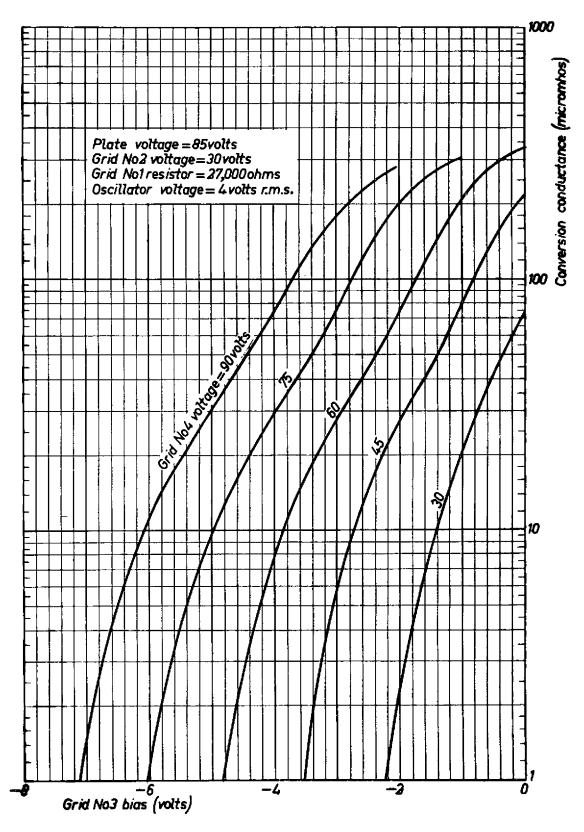
²) Connected to +filament.

1AC 6



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