### #1339, Aug. 16, 1954 **PHILIPS**



#### OUTPUT PENTODE

#### PHYSICAL SPECIFICATIONS

Cathode

Coated unipotential

Base

Small button noval 9-pin base

Bulb

76<del>1</del>

Maximum overall length

2.5/8\*

Maximum seated height

2 3/8"

Bulb length excluding tip

2" ± 3/32" 7/8\*

Maximum diameter Mounting position

an y

Basing connections - JETEC basing designation

9 CR

Pin 1 - Not connected

Bottom View of Base

Pin 2 - Grid No.1

Pin 3 - Cathode, grid No.3

Pin 4 - Heater

Pin 5 - Heater

Pin 6 - Not connected

Pin 7 - Plate

Pin 8 - Cathode, grid No.3

Pin 9 - Grid No.2



#### GENERAL ELECTRICAL DATA

#### HEATER DATA

Heater voltage

6.3 volts

Heater current

0.2 amp

#### DIRECT INTERELECTRODE CAPACITANCES

Grid No.1 to all other elements except plate

4.3 µµF

Plate to all other elements except grid No.1

5.1 µµF

Plate to grid No.1

max.

0.2 μμ F

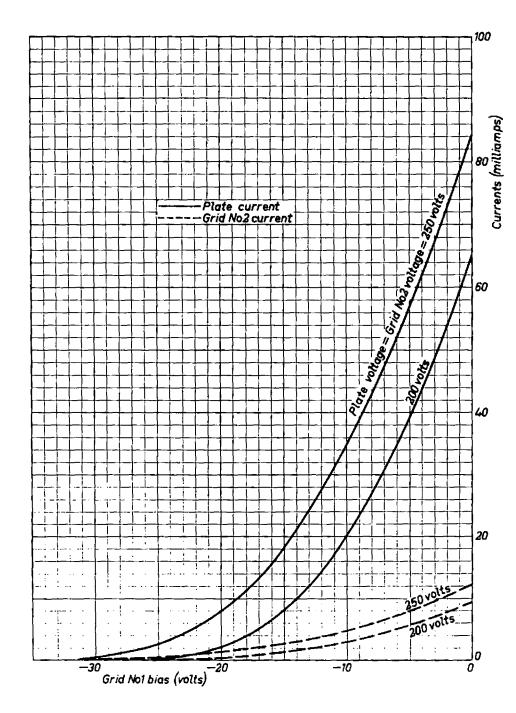
#### **PHILIPS**

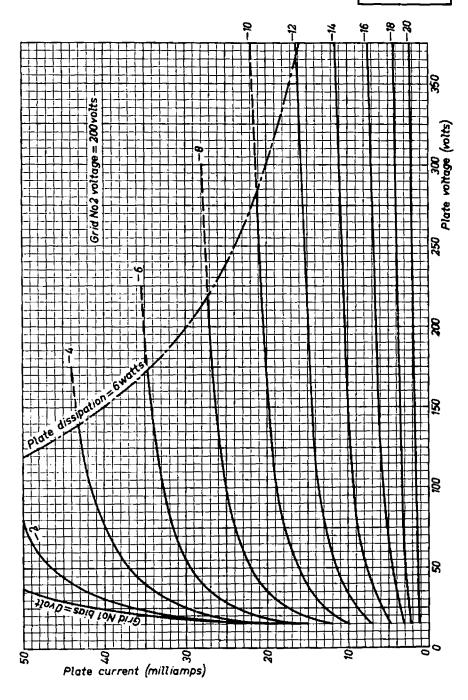
MAXIMUM RATINGS (Design Center	r Values	•)	
Plate voltage without current		550	volts
Plate voltage		300	volts
Plate dissipation		6	watts
Grid No.2 voltage without cur-			-
rent		550	volts
Grid No.2 voltage		300	volts
Grid No.2 dissipation without input signal		1.0	watt
Grid No.2 dissipation at full load		2.0	watts
Cathode current		35	м амря
Grid current starting point. Grid No. 1 voltage at grid No.			_ •
1 current = 0.3 μ amp		-1.3	volts
Grid No.1 circuit resistance		2	megohms
Heater to cathode voltage		100	volts
External heater to cathode resistance		20,000	ohma
OPERATING CONDITIONS  Class A, one tube			
Plate voltage	200	225	volts
Grid No.2 voltage	200	•	volts
Cathode bias resistor	360	-	ohma
Plate current	22.5		т атра
Grid No.2 current	3.5		ш атра
Transconductance	3200		micromhos
Amplification factor of grid No.2 with respect to grid No.1	11	11	mici omitos
Plate load resistance	9000		ohma
Input A.C. voltage	6.8	•	volte, rms
Max. signal power output	2.1		watts
Total harmonic distortion	11		percents
Input A.C. voltage for power		12	her cenna
output of 50 m watts	0.8	0.75	volts, rms

### PHILIPS

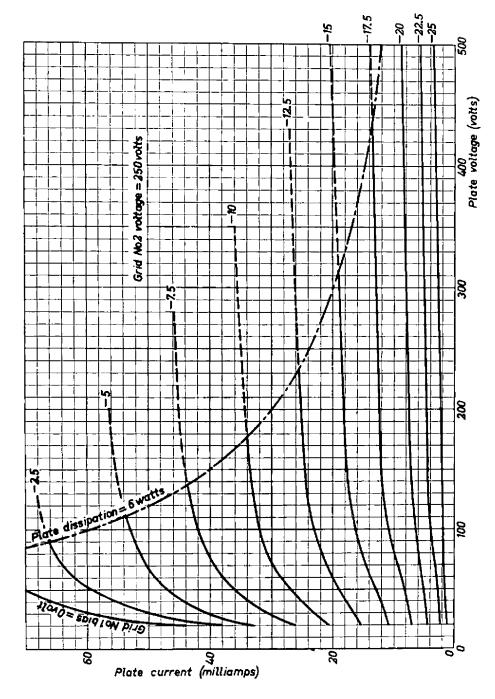
OPERATING CONDITIONS (Continued)						
Class AB, two tubes						
Plate voltage		200		250	volts	
Grid No.2 voltage		200		250	volts	
Common cathode re- sistor		310		310	ohms	
Loud resistance, plate to plate	15	5000	<b>150</b> 00		ohms	
Input A.C.voltage	0	9.6	0	12.5	volts,rms	
Plate current	2x16	2x17	2x20	2x22	m amps	
Grid No.2 current	2 <b>x2.</b> 6	2x5.6	2x3.2	2x6.7	m amps	
Max. signal power output	0	4.1	0	7.0	watts	
Total harmonic dis- tortion	_	5.5	-	5.5	percents	
Class B, two tubes						
Plate voltage		200		250	volts	
Grid No.2 voltage		200		250	volts	
Grid No.1 bias		-17	-2	22.5	volts	
Plate resistance, plate to plate	16000 16000		5000	ohms		
Input A.C. voltage	0	12	0	16	volts,rms	
Plate current	2x5	2x16	2 <b>x</b> 5	2x20	na enn pa	
Grid No.2 current	2x0.8	2 <b>x4.</b> 6	2x0.8	2x6.5	w swba	
Max. signal power output	0	4.0	0	6.5	watts	
Total harmonic distortion	-	3.5	-	5	percents	

N.V. PHILIPS' GLOBILAMPRY FABRIEKTY, Eindheven, Holland. 4.4.1954.

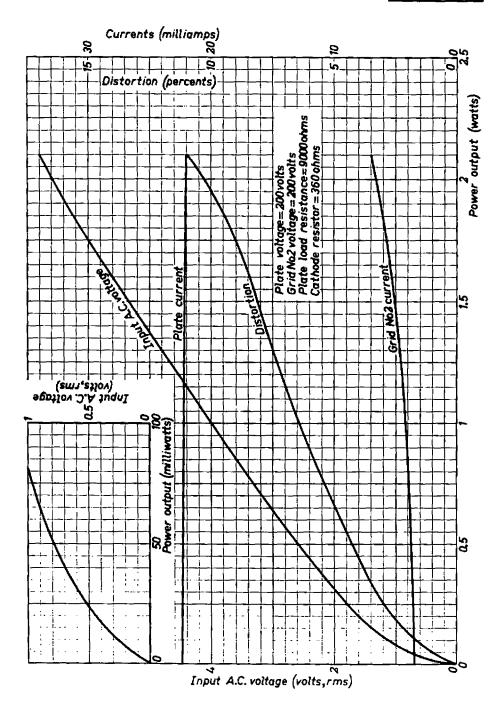


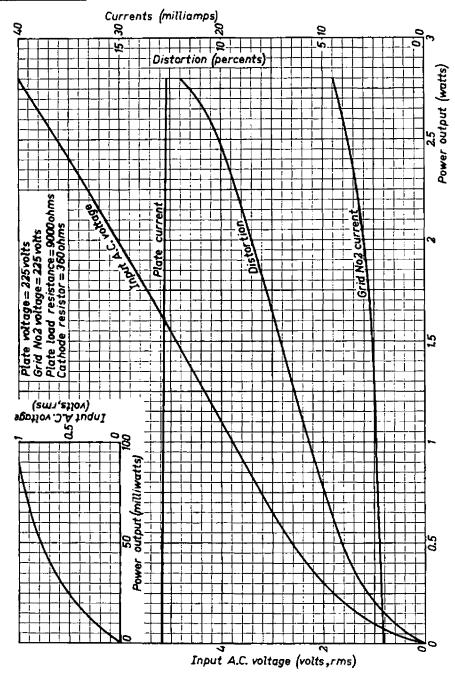


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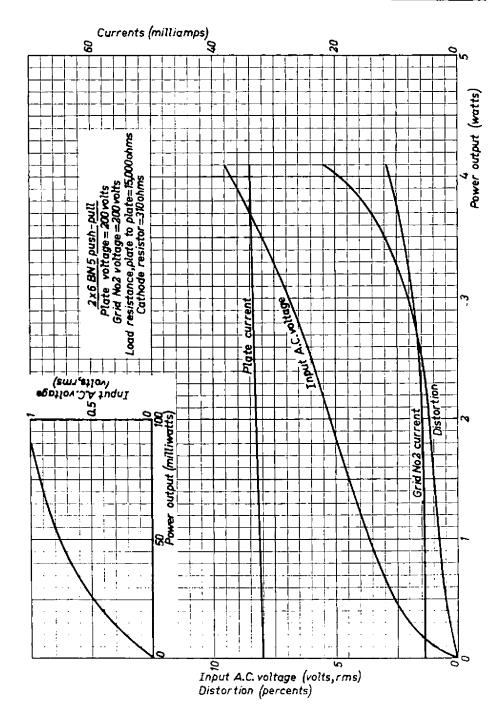




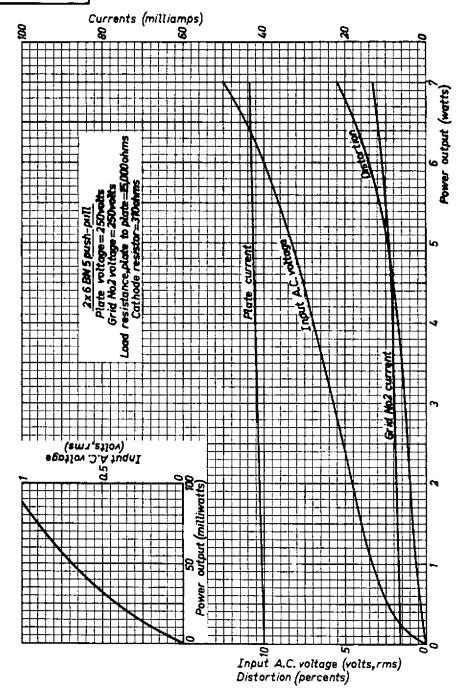




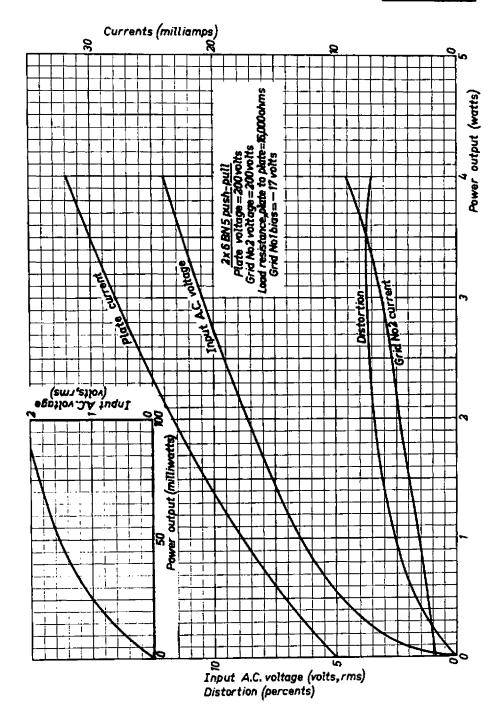


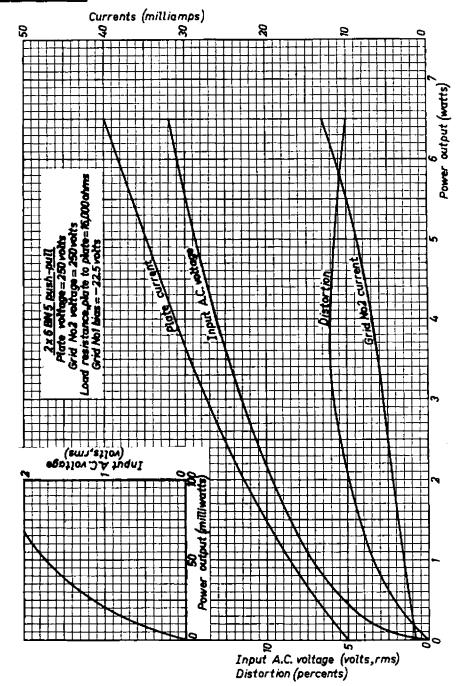


4.4.1954









# JOINT ELECTRON TUBE ENGINEERING COUNCILON

FILE



650 SALMON TOWER
11 WEST FORTY-SECOND STREET
NEW YORK 36, N.Y.
TELEPHONE: LONGACRE 5-3450

Announcement of Electron Device Type Reregistration

Release No. 1339A (Tentative)\*

March 19, 1956

The Joint Electron Tube Engineering Council announced registration of the following JETEC tube type designation

#### 6BN5

on August 16, 1954 in Release No. 1339, under the sponsorship of the Philips Laboratories, Irvington on Hudson, New York.

The sponsor now proposes reregistration on the basis of the following modifications:

<u>I</u> TEM	AS REGISTERED	AS PROPOSED
Basing Arrangement (9CR)	Pin 1 - N.C. Pin 2 - Gl Pin 3 - K, G3 Pin 4 - H Pin 5 - H Pin 6 - N.C. Pin 7 - P Pin 8 - K, G3 Pin 9 - G2	G1 K H H G3 P G3 G2

\*Unless valid objection to this reregistration is lodged with the RETMA Engineering Office prior to April 19, 1956, this reregistration will be made and this information will be considered "FINAL" WITHOUT FURTHER NOTICE!