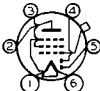




IF6

IF6
IF7-GV

DUPLEX-DIODE PENTODE

Filament	Coated	
Voltage	2.0	d-c volts
Current	0.06	amp.
Direct Interelectrode Capacitances - Pentode Unit:		
Grid to Plate (with shield-can)	0.007 max.	μf
Input	4	μf
Output	9	μf
Overall Length	4-9/32" to 4-17/32"	
Maximum Diameter	1-9/16"	
Bulb	ST-12	
Cap	Small Metal	
Base	Small 6-Pin	
Pin 1-Filament +		Pin 5-Diode Plate #1
Pin 2-Plate		Pin 6-Filament -
Pin 3-Screen		Cap -Grid
Pin 4-Diode Plate #2		

Mounting Position BOTTOM VIEW (6W) Vertical, Base Down[◇]

Maximum Ratings, Typical Operating Conditions, and Curves are the same as for Type IF7-GV.

◇ Horizontal operation is permissible if pins 1 and 6 are in vertical plane.

IF7-GV



DUPLEX-DIODE PENTODE

Filament	Coated	
Voltage	2.0	d-c volts
Current	0.06	amp.
Direct Interelectrode Capacitances - Pentode Unit:*		
Grid to Plate	0.01 max.	μf
Input	3.8	μf
Output	9.5	μf
Overall Length	4-7/32" to 4-15/32"	
Maximum Diameter	1-9/16"	
Bulb	ST-12	
Cap	Skirted Miniature	
Base	Small Shell Octal 8-Pin	
Pin 1-No Connection		Pin 6-Pentode Grid #2
Pin 2-Filament +		Pin 7-Filament -
Pin 3-Pentode Plate		Pin 8-No Connection
Pin 4-Diode Plate #2		Cap - Pentode Grid #1
Pin 5-Diode Plate #1		
Mounting Position	BOTTOM VIEW (7AD) Vertical, Base Down [◇]	

* With close-fitting shield connected to negative filament terminal.

◇ Horizontal operation permitted if pins 2 and 7 are in vertical plane.

(continued on next page)

FEB. 2, 1940

RCA RADIONRON DIVISION
RCA MANUFACTURING COMPANY, INC.

DATA



IF7-GV

DUPLEX-DIODE PENTODE

(continued from preceding page)

PENTODE UNIT - Class A₁ Amplifier

Plate Voltage	180 max. volts
Screen Voltage	67.5 max. volts

Typical Operation as R-F or I-F Amplifier:

Filament	2.0	d-c volts
Plate	180	volts
Screen	67.5	volts
Grid	-1.5	volts
Plate Res.	1 approx.	megohm
Transcond.	650	μmhos
Transcond. at -12 volts bias	20	μmhos
Plate Cur.	2.2	ma.
Screen Cur.	0.7	ma.

Typical Operation as Resistance-Coupled A-F Amplifier:

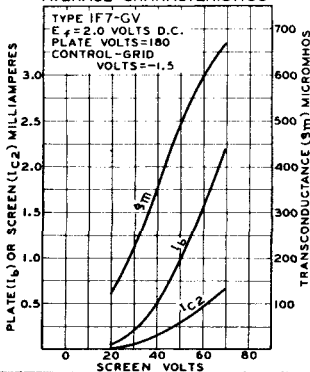
Filament	2.0	2.0	d-c volts		
Plate Supply	135	135	volts		
Screen Supply	135	135	volts		
Plate Resistor	0.25	0.25	megohm		
Screen Resistor	1	0.8	megohm		
Grid Voltage	-1	-2	volts		
Peak A-F Grid Voltage	0.64	0.62	volts		
Zero-Sig. Plate Cur.	0.42	0.42	ma.		
Max.-Sig. Plate Cur.	0.34	0.34	ma.		
Load Resistance	▲	▲			
Grid Resistor**	1.0	0.5	1.0	0.5	megohm
Voltage Output	30.8	28	28	25.2	peak volts
Tot. Harmonic Dist.	5	5	5	5	%
Voltage Amplification	48	43	46	41	

DIODE UNITS - Two

The two diodes are located at the negative end of the filament. They are independent of each other and of the pentode unit except for the common filament. Diode curves under Type 6B7 apply to the IF7-GV.

- Voltages at plate and screen will be Plate-Supply and Screen-Supply voltages minus voltage drops in plate and screen resistors, respectively.
- ▲ Load resistance, across which output voltage is developed, consists of plate resistor, blocking condenser, and grid resistor of following tube.
- ** For following amplifier tube.
- The d-c resistance in the grid circuit should not exceed 1.0 megohm.

AVERAGE CHARACTERISTICS



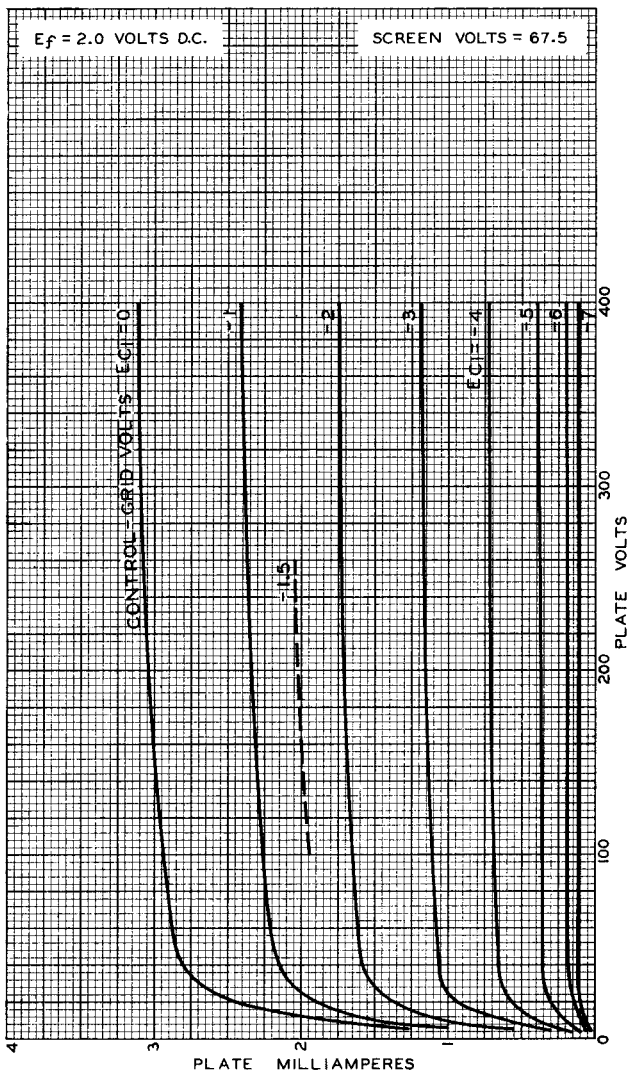
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IF7-GV

IF7-GV

AVERAGE PLATE CHARACTERISTICS



IF7-GV



IF7-GV

AVERAGE CHARACTERISTICS

