



POWER AMPLIFIER PENTODE

Filament	Coated	
Voltage	1.4	d-c volts
Current	0.05	amp.
Maximum Overall Leng		2-25/32"
Maximum Seated Heigh		2-1/4"
Maximum Diameter		1-3/16"
Bulb		T-9
Base	<u>a</u> _(5)	Lock-in 8-Pin
Pin 1-Filament +	(3/ ₋	Pin 5 - No Connection
Pin 2-Plate		Pin 6-Grid
Pin 3 - Screen		Pin 7 - No Connection
Pin 4 - No Connection	on OSO	Pin 8 - Filament -
Mounting Position	1892 	Any
The state of the s	BOTTOM VIEW (5AD1)	*

ILA6 PENTAGRID CONVERTER

For curve and additional data, refer to Type 1ASGT/1ASG. The 1LA4 and the 1ASGT/1ASG are identical electrically.



Filament	Coated		- d - c	volts	
Voltage	1.4		u-c		
Current	0.05			amp.	
Direct Interelectrod	e Capacitances:		0.4	. r	
Grid #4 to Plate			0.4		
Grid #4 to Grid #2			0.3		
Grid #4 to Grid #1			0.15		
Grid #1 to Grid #2		_	0.6		
Grid #4 to All Oth	er Electrodes (R-F	Input)	7.7	μμf	
Grid #2 to All Oth	er Electrodes				
Except Grid #1 (Osc. Output)		3.3	μμf	
Grid #1 to All Oth	er Electrodes				
Except Grid #2 (2.9	μμf	
	Electrodes (Mixer	Output)	8.0	μμf	
Maximum Overall Leng			2-2	25/32"	
Maximum Seated Heigh			2-	-1/4"	
Maximum Diameter	-		1	3/16"	
Bulb				T-9	
Base		loc	k-in	8-Pin	
Pin 1-Filament +		Pin 5-Gri			
Pin 2-Plate	3 (7-1)(6)	Pin 6-Gri) U	
Pin 3 - Grid #2	a the following the second sec	Pin 7 – No		ection	
		Pin 8-Fil			
Pin 4 - Grid #1	es O B O	11110-111	amerra	Any	
Mounting Position	BOTTOM VIEW (7AK)			Ally	
^o With close-fitting shield connected to negative filament terminal.					
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PENTAGRID CONVERTER

(continued from preceding page)						
CONVERTER SERVICE						
Plate Voltage	90	max.	volts			
Screen (Grids #3 & #5) Voltage▲	5 5	max.	volts			
Screen Supply Voltage	90	max.	volts			
Anode-Grid (Grid #2) Voltage	90	max.	volts			
Total Zero-Sig. Cathode Current	3	max.	ma.			
Typical Operation and Characteristics:	•					
Plate	90		volts			
Screen	45		volts			
Anode-Grid	90		volts			
Control-Grid (Grid #4)▲▲	0		volts			
Oscillator-Grid (Grid #1) Resistor	200000		ohms			
Plate Res.	0.75	approx.	ohms			
Conversion Transcond.	250	• •	µmhos			
Conversion Transcond. with Grid #4			•			
Bias of -3 volts	10	approx.	µmhos			
Plate Cur.	0.55		ma.			
Screen Cur.	0.6		ma.			
Anode-Grid Cur.	1.2		ma.			
Oscillator-Grid Cur.	0.035		ma.			
Total Cathode Cur.	2.4		ma.			
	+: <i>[</i>	nt occill	at ion)			
NOTE: The transconductance of the oscillator portion (not oscillating) is approximately 550 µmhos, and the anode grid current 2.2 ma. under the following conditions: plate volts, 90; screen volts, 45; control-grid volts, 0; anode-grid volts, 90; and oscillator-						
grid volts, 0. Obtained preferably by using a properly by-payor voltage-dropping resistor in series with a 90 A resistance of at least 1.0 megohm should to negative filament pin.	assed 4500 D-volt sup De in the	00 to 750 pply. grid ret	00-ohm urn to			

A Typical Pentagrid Circuit is shown under Type 116.