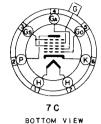
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PENTAGRID CONVERTER

UNIPOTENTIAL CATHODE

HEATER



GLASS BULB

SMALL 7 PIN BASE

THE TUNG-SOL 2A7 AND 6A7 ARE PENTAGRID CONVERTERS DESIGNED FOR SERVICE AS OSCILLATORS AND MIXERS IN AC OPERATED AND AC -DC OPERATED RECEIVERS. WITH THE EXCEPTION OF HEATER RATINGS, THEY HAVE IDENTICAL RATINGS AND ELECTRICAL CHARACTERISTICS.

RATINGS

MAXIMUM PLATE (P) VOLTAGE	300	VOLTS
MAXIMUM SCREEN (GS) SUPPLY VOLTAGE	300	VOLTS
MAXIMUM SCREEN VOLTAGE	100	VOLTS
MINIMUM EXTERNAL CONTROL GRID (G) BIAS VOLTAGE	0	VOLTS
MAXIMUM OSCILLATOR ANODE (GA) SUPPLY VOLTAGE	300	VOLTS
MAXIMUM OSCILLATOR ANODE VOLTAGE	200	VOLTS
MAXIMUM TOTAL CATHODE CURRENT	14	MA.
MAXIMUM PLATE DISSIPATION	1.0	WATT
MAXIMUM SCREEN DISSIPATION	0.3	WATT
MAXIMUM OSCILLATOR ANODE DISSIPATION	0.75	WATT

FOR "INTERPRETATION OF RATINGS" REFER TO FRONT OF BOOK.

CONTINUED NEXT PAGE

PLATE 918-2 DEC-30

--- TUNG-SOL

DIRECT INTERELECTRODE CAPACITANCES

CONTROL GRID (G) TO MIXER PLATE (P) ^S	0.3	μμf
CONTROL GRID (G) TO OSCILLATOR ANODE (GA)S	0.15	μμf
CONTROL GRID (G) TO OSCILLATOR GRID (G0) ^S	0.15	μμf
OSCILLATOR GRID (Go) TO OSCILLATOR ANODE (GA)	1.0	μμf
RF INPUT: CONTROL GRID (G) TO ALL OTHER ELECTRODES	8.5	μμf
OSCILLATOR INPUT: OSCILLATOR GRID (G0) TO ALL OTHER ELECTRODES	7.0	µµ f µµ f
OSCILLATOR OUTPUT: OSCILLATOR ANDDE ($G_{\mathbf{A}}$) TO ALL OTHER ELECTRODES	5.5	μμf
MIXER OUTPUT: MIXER PLATE (P) TO ALL OTHER ELECTRODES	9.0	μμf

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CONVERTER SERVICE

PLATE (P) VOLTAGE	100	250	VOLTS
SCREEN (GS) VOLTAGE	50	100	VOLTS
CONTROL GRID (G) VOLTAGE MIN-	-1.5	-3	VOLTS
OSCILLATOR ANODE (GA) SUPPLY VOLTAGEA	_	25 0	VOLTS
OSCILLATOR ANODE VOLTAGE	100		VOLTS
OSCILLATOR GRID (Go) RESISTOR	50 000	50 000	OHMS
PLATE CURRENT	1.1	3.5	MA.
SCREEN CURRENT	1.3	2.7	MA.
OSCILLATOR ANODE CURRENT	2.0	4.0	MA.
OSCILLATOR GRID CURRENT	0.25	0.4	MA.
TOTAL CATHODE CURRENT	4.6	10.6	MA.
PLATE RESISTANCE APPROX.	0.6	0.36	MEGOHM
CONVERSION TRANSCONDUCTANCE	360	_	µмноs
FOR CONTROL GRID (G) VOLTAGE = -1.5 V.			
CONVERSION TRANSCONDUCTANCE	180	550	µмн os
FOR CONTROL GRID (G) VOLTAGE = -3 V.			
CONVERSION TRANSCONDUCTANCE	50	325	µмн os
FOR CONTROL GRID (G) VOLTAGE = -6 V.			
CONVERSION TRANSCONDUCTANCE		100	µмноs
FOR CONTROL GRID (G) VOLTAGE = -10 V.			
CONVERSION TRANSCONDUCTANCE APPROX.	3	_	µмноs
FOR CONTROL GRID (G) VOLTAGE = -20 V.			
CONVERSION TRANSCONDUCTANCE APPROX.	~	6	µмноs
FOR CONTROL GRID (G) VOLTAGE = -35 V.			

A APPLIED THROUGH A 20 000 OHM DROPPING RESISTOR

PLATE 919-2

S WITH EXTERNAL SHIELD CONNECTED TO CATHODE