

PENTAGRID CONVERTER

Filament Voltage	Coated 2.0	d-c. volts
Current	0.060	amp.

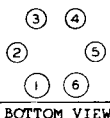
Direct Interelectrode Capacitances (approx.):

C_{g4p}	#4 GRID	#3 & #5 GRIDS	0.25 [°]	μμf
C_{g4g2}	#1 GRID	#2 GRID	0.2 [°]	μμf
C_{g4g1}			0.1 [°]	μμf
C_{g1g2}			0.8	μμf
$C_{g4(k+g1+g2+g3+g5+p)}$	= R-F Input		10.5	μμf
$C_{g2(k+g1+g3+g4+g5+p)}$	= Osc. Output		6	μμf
$C_{g1(k+g2+g3+g4+g5+p)}$	= Osc. Input		5	μμf
$C_{p(k+g1+g2+g3+g4+g5)}$	= Mixer Output		9	μμf

Overall Length
Maximum Diameter
Bulb
Cap
Base

4-9/32" to 4-17/32"
1-9/16"
ST-12
Small Metal
Small 6-Pin

Pin 1-Filament+
Pin 2-Plate
Pin 3-Grid #2
Pin 4-Grid #1



Pin 5-Grids #3 & #5
Pin 6-Filament-Cap -Grid #4

CONVERTER SERVICE

Plate Voltage	180 max.	volts
Screen (Grids #3 & #5) Voltage	67.5 max.	volts
Anode-Grid (Grid #2) Voltage	135 max.	volts
Anode-Grid Voltage Supply*	180 max.	volts
Control-Grid (Grid #4) Voltage	-3 min.	volts
Total Cathode Current	9 max.	ma.

Typical Operation:

Filament	2.0	2.0	d-c volts
Plate	135	180	volts
Screen	67.5	67.5	volts
Anode-Grid	135	135	volts
Anode-Grid Supply	135	180*	volts
Control-Grid	-3	-3	volts
Oscillator-Grid (Grid #1) Res.	.50000	50000	ohms
Plate Resistance	0.4	0.5	megohm
Conversion Cond.	275	300	μmhos
Conversion Cond. at -22.5 volts on Grid #4	4	4	μmhos
Plate Current	1.2	1.3	ma.
Screen Current	2.5	2.4	ma.
Anode-Grid Current	2.3	2.3	ma.
Oscillator-Grid Cur.	0.2	0.2	ma.
Total Cathode Current	6.2	6.2	ma.

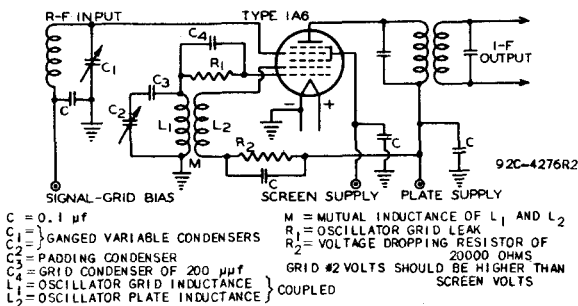
* Applied through a 20000-ohm voltage-dropping resistor, by-passed by 0.1 μf condenser. ←

The mutual conductance of the oscillator portion (not oscillating) of the 1A6 is 425 micromhos under the following conditions: plate voltage, 135 to 180 volts; screen voltage, 67.5 volts; anode-grid voltage (no voltage-dropping resistor), 135 volts; and oscillator-grid voltage, 0 volts. Under these same conditions, the anode-grid current is 2.3 milliamperes.

° With shield-cap
← indicates a change

PENTAGRID CONVERTER

TYPICAL PENTAGRID CONVERTER CIRCUIT



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OPERATION CHARACTERISTICS

