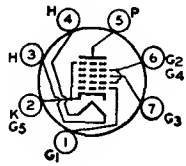
18FX6 Refer to chart at end of section.

18FX6A PENTAGRID CONVERTER



7CH

Miniature type used for converter applications in ac/dc radio receivers. Outlines section, 5C; requires miniature 7-contact socket. Heater: volts (ac/dc), 18; amperes, 0.1; warm-up time (average), 20 seconds; maximum heater-cathode volts, ±100 peak.

Converter

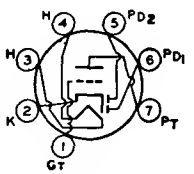
MAXIMUM RATINGS (Design-Maximum Values)		
Plate Voltage	150	volts
Grids-No.2-and-No.4 (Screen-Grid) Supply Voltage	150	volts
Grids-No.2-and-No.4 Voltage	110	volts
Grids-No.2-and-No.4 Input	1.2	watts
Plate Dissipation	1	watt
TPYICAL OPERATION (Separate Excitation)*		
Plate Voltage	100	volts
Grids-No.2-and-No.4 (Screen-Grid) Voltage	100	volts
Grid-No.3 (Control-Grid) Voltage	—1.5	volts
Grid-No.1 (Oscillator-Grid) Resistor	20000	ohms
Plate Resistance (Approx.)	0.4	megohm
Conversion Transconductance	480	μmhos
Plate Current	2.3	mA
Grids-No.2-and-No.4 Current	6.2	mA
Grid-No.1 Current	0.5	mA
Total Cathode Current	9	mA
Grid-No.3 Voltage (Approx.) for conversion transconductance of 10 μmhos	—21	volts

NOTE: The transconductance between grid No.1 and grids No.2 and No.4 connected to plate (not oscillating) is approximately 7000 μmhos under the following conditions: grids No.1 and No.3 at 0 volts; grids No.2 and No.4 and plate at 100 volts. Under the same conditions, the plate current is 24 μA, and the amplification factor is 22.

* The characteristics shown with separate excitation correspond very closely with those obtained in a self-excited oscillator circuit operating with zero bias.

18FY6 Refer to chart at end of section.

18FY6A TWIN DIODE—HIGH-MU TRIODE



7BT

Miniature type used as combined detector, amplifier, and avc tube in compact ac/dc radio receivers. Outlines section, 5C; requires miniature 7-contact socket. Heater: volts (ac/dc), 18; amperes, 0.1; warm-up time (average), 20 seconds; maximum heater-cathode volts, ±100 peak.

Triode Unit as Class A_1 Amplifier

MAXIMUM RATINGS (Design-Maximum Values)		
Plate Voltage	150	volts
Grid Voltage, Positive-bias value	0	volts
Plate Dissipation	0.5	watt
CHARACTERISTICS		
Plate Voltage	100	volts
Grid Voltage	—1	volt
Amplification Factor	100	
Plate Resistance (Approx.)	77000	ohms
Transconductance	1300	μmhos
Plate Current	0.6	mA

Diode Units (Each Unit)

MAXIMUM RATINGS (Design-Maximum Values)		
Plate Current	1	mA