

Maximum Heater-Cathode Voltage

Heater Negative with Respect to Cathode

Total DC and Peak 100 Volts

Heater Positive with Respect to Cathode

Total DC and Peak 100 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)⁽¹⁾

Grid No. 1 to Plate (Max.) 0.0035 Pf

Input 5.5 Pf

Output 5.0 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.) 150 Volts

Grid No. 2 Supply Voltage (Max.) 150 Volts

Grid No. 2 Voltage See Rating Chart (Gen. Info. Sec.)

Plate Dissipation (Max.) 2.5 Watts

Grid No. 2 Dissipation (Max.) 0.6 Watt

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage 100 Volts

Grid No. 3 Voltage Connected to Cathode at Socket

Grid No. 2 Voltage 100 Volts

Cathode Bias Resistor 68 Ohms

Plate Current 11 Ma

Grid No. 2 Current 4.4 Ma

Transconductance 4400 μ mhos

Plate Resistance (Approx.) 0.25 Megohm

Grid No. 1 Voltage for gm = 25 μ mhos -20 Volts**NOTE:**

(1) External shield No. 316 connected to Pin No. 7 (cathode).

18FX6A**CONVERTER/AMPLIFIER****Pentagrid Type**

Construction Miniature T-5½

Base Button 7 Pin, E7-1

Basing 7CH

Outline 5-2

Maximum Diameter 0.750 In.

Maximum Seated Height 1.875 In.

Maximum Overall Height 2.125 In.

ELECTRICAL DATA**HEATER OPERATION**

Heater Voltage 18 Volts

Heater Current 100 Ma

Heater Warm-up Time 20 Seconds

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DIRECT INTERELECTRODE CAPACITANCESGrid No. 3 to Plate (Max.) **Shielded⁽¹⁾** 0.25 **Unshielded** 0.30 Pf

Grid No. 3 to Grid No. 1 (Max.) 0.15 0.15 Pf

Grid No. 3 Input:

g3 to (h + k + g1 + g2 + g4 + g5 + p) 7.0 7.0 Pf

Grid No. 1 Input:

g1 to (h + k + g2 + g4 + g3 + g5 + p) 5.5 5.5 Pf

Output: p to (h + k + g1 + g2 + g4 + g3 + g5) 13.0 8.0 Pf

Grid No. 1 to Cathode 3.0 3.0 Pf

Cathode to All Electrodes Except Grid No. 1 20.0 15.0 Pf

Grid No. 1 to Plate 0.05 0.1 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.) 150 Volts

Grid No. 2 and Grid No. 4 Supply Voltage (Max.) 150 Volts

Grid No. 2 and Grid No. 4 Voltage (Max.) 110 Volts

Plate Dissipation (Max.) 1.0 Watt

Grid No. 2 and Grid No. 4 Dissipation (Max.) 1.2 Watts

CHARACTERISTICS AND TYPICAL OPERATION**Separate Excitation⁽²⁾**

Plate Voltage 100 Volts

Grid No. 2 Voltage 100 Volts

