

SYLVANIA ELECTRIC

RMA Registration Data

TYPE 1AF4

PENTODE

MECHANICAL DATA

Style	miniature
Cathode	coated filament
Bulb	T-5 1/2
Base	E7-1, Miniature Button 7-Pin
Outline	5-2
Maximum Diameter	3/4 inch
Maximum Overall Length	2 1/8 inches
Maximum Seated Height	1 7/8 inches
Basing	6AR-0-1&5
Pin Connections:	
Pin 1 .. negative filament, internal shield, grid #3	Pin 4 .. no connection
Pin 2 .. plate	Pin 5 .. (same as Pin 1)
Pin 3 .. grid #2	Pin 6 .. grid #1
	Pin 7 .. positive filament
Mounting Position	any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES

	<u>without shield</u>	<u>with shield⁽¹⁾</u>
Grid to Plate, maximum008	.008 μmf
Input: g1 to (f+g2+g3+i.s.)	3.8	3.8 μmf
Output: p to (f+g2+g3+i.s.)	7.5	7.6 μmf

RATINGS -- Design Center Values

Filament Voltage ⁽²⁾	1.4	volts
Maximum Plate Voltage (dc)	110	volts
Maximum Grid #2 Supply Voltage (dc)	110	volts
Maximum Grid #2 Voltage (dc)	90	volts
Maximum Positive Grid #1 Voltage (dc)	0	volts
Maximum Cathode Current	2.5	milliamps

CHARACTERISTICS

Filament Voltage	1.4	1.4	volts
Filament Current	25	25	milliamps
Plate Voltage (dc)	67.5	90	volts
Grid #2 Voltage (dc)	67.5	90	volts
Grid #1 Voltage (dc)	0	0	volts
Plate Resistance	2.0	1.8	megohms
Transconductance	825	950	micromhos
Plate Current	1.0	1.65	milliamps
Grid #2 Current	0.3	0.5	milliamps
Grid #1 Voltage, for 10 micromhos transconductance	-2.5	-3.5	volts

(1) Shield #316 connected to Pins 1 & 5.

(2) For power-line operation the filament voltage is centered at 1.4 volts for normal line voltage (117 volts).