

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</u> ⁽¹⁾
Grid to Plate, maximum	.008	.008 μ f
Input: g1 to (f+g2+g3+i.s.)	3.8	3.8 μ f
Output: p to (f+g2+g3+i.s.)	7.5	7.6 μ f

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).