

SYLVANIA ELECTRIC

RTMA Registration Data

TYPE 2B5

DOUBLE TRIODE

The Type 2B5 is a subminiature double triode capable of operation up to 150 megacycles as a voltage amplifier.

MECHANICAL DATA

Style subminiature
Cathode coated filament
Bulb T-3
Base E8-10, Subminiature Button--Flexible Leads
Outline 3-2
Maximum Diameter 0.400 inch
Maximum Overall Bulb Length 1.50 inches
Minimum Lead Length 1.50 inches
Mounting Position any
Basing 8DP

Lead Connections:

Lead 1 -- #2 plate	Lead 5 -- filament (+)
Lead 2 -- filament tap*	Lead 6 -- #1 grid
Lead 3 -- #2 grid	Lead 7 -- filament tap*
Lead 4 -- filament (-)	Lead 8 -- #1 plate

ELECTRICAL DATA

GENERAL

Direct Interelectrode Capacitances:

	<u>Shielded**</u>	<u>Not Shielded</u>
Grid to Plate (Section 1).....	1.2	1.2 uuf
Grid to Plate (Section 2).....	1.2	1.2 uuf
Input (Section 1).....	0.9	0.8 uuf
Input (Section 2).....	0.9	0.7 uuf
Output (Section 1).....	1.9	0.8 uuf
Output (Section 2).....	2.2	0.9 uuf
Grid to Grid	0.044	0.046 uuf
Plate to Plate	0.5	0.7 uuf

	<u>Series Operation***</u>	<u>Parallel Operation</u>
Filament Voltage	2.4	1.2 volts
Filament Current	130	260 milliamps

* Negative filament terminal for parallel operation.

** External shield of 0.405 inch diameter connected to pin 4.

*** For series operation of filament a shunting resistor must be connected between pins 4 and 2 (or 7). The resistor value should be such that the voltage across the shunted section is equal to the voltage between pins 5 and 2. Under these conditions the total filament current will be as indicated.

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RATINGS—Design Center System

Maximum Plate Voltage (dc).....	110	volts
Maximum Plate Dissipation (each section).....	0.55	watts
Maximum Grid Voltage (dc):		
Positive	0	volts
Negative	-20	volts
Maximum Cathode Current (dc).....	5	milliamps

CHARACTERISTICS (each section, parallel filament operation)

Conditions:

Filament Voltage	1.2	volts
Plate Voltage (dc).....	90	volts
Grid Voltage (dc).....	-1.0	volts
Plate Current	2.6	milliamps
Transconductance	1,150	micromhos
Amplification Factor	21.5	
Plate Resistance	18,700	ohms
Grid Voltage for 10 uamps Plate Current	6.0	volts