

# 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.

## TYPE 2B5

### 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 namps Plate Current .....	6.0	volts