

ELECTRONIC TUBE REFERENCE

# 3BMP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**  
CONSTRUCTION  
**CATHODERAY**

Three-inch direct-view oscilloscope CRT with electrostatic focusing and deflection and high-voltage accelerating operation. Its P1 green, medium persistence screen provides the persistence characteristics needed for oscillographic instrumentation.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 1.5 V / 140 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                              |        |
|----------------------------------------------------------------------------------------------|--------|
| SECTION1 Cathode Ray                                                                         |        |
| MAXIMUM PLATE VOLTAGE                                                                        | 6600 V |
| Published source values promoted where applicable; additional values retained as parameters. |        |

Sylvania 3BMP1 direct-view oscilloscope CRT with electrostatic focus/deflection; P1 green, medium persistence. Published maximum ratings, capacitances, and typical operating conditions were extracted from the supplied datasheet.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1950 SYLVANIA

## Section 1 · Cathode Ray

| CHARACTERISTICS   |                 |                  |
|-------------------|-----------------|------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE |
| Focusing method   | Electrostatic   | —                |
| Deflection method | Electrostatic   | —                |
| Phosphor          | P1              | —                |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1965 Sylvania Electronic Tubes Vol3

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1965 SYLVANIA ELECTRONIC TUBES VOL3

## Section 1 · Cathode Ray

| CHARACTERISTIC                    |                              |                    |
|-----------------------------------|------------------------------|--------------------|
| PARAMETER                         | PUBLISHED VALUE              | CONDITION / NOTE   |
| Heater Voltage                    | 6.3 V                        | —                  |
| Heater Current                    | 600 mA                       | —                  |
| FocusingMethod                    | Electrostatic                | —                  |
| DeflectionMethod                  | Electrostatic                | —                  |
| Phosphor                          | P1 green, medium persistence | —                  |
| MinimumUsefulScreen               | 2.68 in                      | —                  |
| DeflectionFactorUniformityMaximum | 2 %                          | —                  |
| PatternDistortionMaximum          | 2 %                          | —                  |
| ModulationMaximum                 | 38 V                         | Anode3Current=25uA |

| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE   |
|------------------|-----------------|--------------------|
| LineWidthMaximum | <b>0.016 in</b> | Anode3Current=25uA |

| OTHER                              |                     |                               |
|------------------------------------|---------------------|-------------------------------|
| PARAMETER                          | PUBLISHED VALUE     | CONDITION / NOTE              |
| Anode3VoltageMaximum               | <b>6600 V</b>       | —                             |
| Anode2VoltageMaximum               | <b>2200 V</b>       | —                             |
| Anode1FocusVoltageMaximum          | <b>1500 V</b>       | —                             |
| GridNegativeBiasMagnitudeMaximum   | <b>200 V</b>        | —                             |
| GridPositivePeakVoltageMaximum     | <b>0 V</b>          | —                             |
| PeakHeaterCathodeVoltageNegative   | <b>50 V</b>         | —                             |
| PeakVoltageAnode2ToDeflectionPlate | <b>550 V</b>        | —                             |
| Anode3Voltage                      | <b>4000 V</b>       | —                             |
| Anode2Voltage                      | <b>2000 V</b>       | —                             |
| Anode1VoltageForFocus              | <b>375-575 V</b>    | —                             |
| GridVoltageForCutoff               | <b>-45 to -75 V</b> | —                             |
| DeflectionFactorPlates1_2          | <b>180-220 V/in</b> | —                             |
| DeflectionFactorPlates3_4          | <b>133-163 V/in</b> | —                             |
| GridCircuitResistanceMaximum       | <b>1.5 Mohm</b>     | —                             |
| DeflectionCircuitResistanceMaximum | <b>5 Mohm</b>       | —                             |
| Anode3ToAnode2VoltageRatioMaximum  | <b>3</b>            | —                             |
| Anode2PowerInputMaximum            | <b>6 W</b>          | Except3BMP12AverageRatingNote |

## TUBE TINKER

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and their source documents.

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