ELECTRONIC TUBE REFERENCE

3BMP2

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 P2 blue-green/green, long 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 3BMP2 direct-view oscilloscope CRT with electrostatic focus/deflection; P2 blue-green/green, long persistence. Published maximum ratings, capacitances, and typical operating conditions were extracted from the supplied datasheet.

SOURCE OPERATING CONDITIONS

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	**P2**	—

SOURCE DATA APPENDIX

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	**P2 blue-green/green, long persistence**	—
MinimumUsefulScreen	**2.68 in**	—
DeflectionFactorUniformityMaximum	**2 %**	—
PatternDistortionMaximum	**2 %**	—
ModulationMaximum	**38 V**	Anode3Current=25uA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
LineWidthMaximum	**0.016 in**	Anode3Current=25uA

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