ELECTRONIC TUBE REFERENCE

A2814W

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

European rectangular monochrome television picture tube with electrostatic focusing, magnetic deflection, and an aluminized or metal-backed screen. Manufacturer documentation supports direct-view receiver service with wide-angle deflection and compact cabinet geometry.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	11 V / 68 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Cathode Ray

MAXIMUM PLATE VOLTAGE	28000 V

Published Telefunken/JEDEC ratings and characteristics promoted where applicable; additional values retained as parameters.

28 cm 90-degree self-protected monochrome television picture tube with tinted aluminized screen.

SOURCE OPERATING CONDITIONS

1959 Telefunken

SOURCE PDF

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

1959 TELEFUNKEN

Section 1 · Cathode Ray

APPLICATION		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Application	**Television picture display**	—

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Focusing method	**Electrostatic**	—
Deflection method	**Magnetic**	—
Deflection angle	**90 deg**	—
Faceplate light transmission	**50 %**	—
Screen persistence	**Medium**	—

CONSTRUCTION		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Screen diagonal	**262.5 mm**	—
Screen width	**228 mm**	—
Screen height	**171 mm**	—
Screen construction	**Metal-backed grey glass**	—
Ion trap	**Not required**	—

SOURCE DATA APPENDIX

1963 Mullard

SOURCE PDF

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

1963 MULLARD

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater Voltage	**11 V**	—
Heater Current	**68 mA**	—
Focusing Method	**Electrostatic text**	—
Deflection Method	**Double magnetic text**	—
Deflection Angle	**90 deg**	—
Light Transmission	**55 percent**	—
Grid Cutoff Voltage Range	**-35 to -69 V**	—
Grid Capacitance	**7 pF**	—
Cathode Capacitance	**3 pF**	—
Final-Anode-to-Coating Capacitance Minimum	**550 pF**	—
Final-Anode-to-Coating Capacitance Maximum	**850 pF**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Final Anode Voltage	**11000 V**	—
Focus Electrode Voltage Minimum	**0 V**	—
Focus Electrode Voltage Maximum	**350 V**	—

SOURCE OPERATING CONDITIONS

1968 Mazda Belvu

SOURCE PDF

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

1968 MAZDA BELVU

Section 1 · Cathode Ray

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	**11 V**	Published nominal value
Heater or filament current	**68 mA**	Published nominal value
Screen diagonal	**28 cm**	Published
Deflection angle	**90 deg**	Published

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker