

ELECTRONIC TUBE REFERENCE

AF2180

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Rectangular metal-backed radar cathode-ray tube with electrostatic focusing, 90-degree magnetic deflection, and ion trap. Its direct-view construction is designed for radar presentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray
No fixed ratings recorded.
Rectangular metal-backed radar cathode-ray tube with electrostatic focusing, 90-degree magnetic deflection, and ion trap.

AF2180 is a CathodeRay device. Rectangular metal-backed radar cathode-ray tube with electrostatic focusing, 90-degree magnetic deflection, and ion trap.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V2

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V2

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Screen color	Orange with orange afterglow	—
Useful diagonal	195— mm	Minimum
Useful width	180— mm	Minimum
Useful height	135— mm	Minimum
Grids 4 and 6 voltage	9 kV	—
Grids 3 and 5 voltage	-30-200 V	—
Grid 2 voltage	400 V	—
Grid 1 cutoff voltage magnitude	40-80 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-1 capacitance	—8 pF	Maximum
Cathode capacitance	—6 pF	Maximum
Grid-4+6 to outer-coating capacitance	250-350 pF	—

1999 Philips 0-D

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

1999 PHILIPS 0-D
Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful screen diagonal/diameter	195 mm	—
Deflection method	Magnetic	—
Focusing method	Electrostatic	—
Deflection angle	90 deg	—
Ion trap	Present	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 capacitance maximum	8 pF	—
Cathode capacitance maximum	8 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.2 voltage	400 V	—
Maximum grid No.2 voltage	500 V	—