

ELECTRONIC TUBE REFERENCE

7AKP19

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Seven-inch P19 cathode-ray display tube using a long-persistence orange screen for specialized visual display, with manufacturer-defined beam focusing and deflection characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 600 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.
Promoted fields mapped by printed headings; additional data retained in parameters.

7-inch rectangular dual-gun cathode-ray tube with electrostatic focus and deflection, post acceleration, and long-persistence aluminized screen for radar and oscillographic applications.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage o v v v 6 o v 4 & ¢« o o a s ¢« v o o« o v « + o o «	6.3 V	Published datasheet line; semantic text-layer recovery
Over-all length o « ¢ o ¢ o« ¢ o ¢ ¢ o o ¢ & & . 17-7/8 + 3/	8 in	Published datasheet line; semantic text-layer recovery
Diagonal o o ¢« & o o o &+ o ¢ o ¢ 0 ¢ 0 o W . 6-5/8 + 1/	16 in	Published datasheet line; semantic text-layer recovery
Width & ¢ ¢ ¢ ¢ & ¢ o ¢ oo o o o o« o s .6-1/32 ¥ 1/	16 in	Published datasheet line; semantic text-layer recovery
Hedght o & v 6 ¢ v ¢ v ¢ o v ¢ s o 0 o « & . 4-1/32 ¥ 1/	16 in	Published datasheet line; semantic text-layer recovery
Post-Accelerator Contact Aligns with Trace of D1-D2 +	10 deg	Published datasheet line; semantic text-layer recovery
D1-D2 Trace Aligns with Pin No. 1 and Tube Axis +	10 deg	Published datasheet line; semantic text-layer recovery
Angle between D3-Di and D1- D2 Traces. . . . » *» e	1 deg	Published datasheet line; semantic text-layer recovery
D1-D2 Trace Aligns with Bulb Wall . . . + + . *	3 deg	Published datasheet line; semantic text-layer recovery
Post-Accelerator Voltage + o« o o s o & 4 = o o o o « o & o {	300 V	Published datasheet line; semantic text-layer recovery
Focusing-Electrode Voltage o o o » « ¢« &+ o « « «» . »1150 to	1500 V	Published datasheet line; semantic text-layer recovery
Grid No. 1 Voltaged* . . . « v = ¢ = v.e o « » » « «» =50 to =	120 V	Published datasheet line; semantic text-layer recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D1 and D2 . ϕ o o = o o o a o s » « = + + o « « o 2180°t0	225 V	Published datasheet line; semantic text-layer recovery
D3and Dh v o o o o 2 o s 2=6 o o o s s » o a0 » <140 to	170 V	Published datasheet line; semantic text-layer recovery

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