

ELECTRONIC TUBE REFERENCE

8SP7

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Special-purpose cathode-ray display tube documented for type 8SP7, with manufacturer-defined screen, focusing, and deflection characteristics for technical visual display.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	25
NOMINAL HEATER	6.3 V / 800 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.
Dual-beam cathode-ray tube; ratings are stated per gun and preserved in parameters.

The 8SP7 is an 8-inch dual-beam cathode-ray tube with electrostatic focus and deflection for sonar 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
PostAcceleratorVoltageMax	6000 V	PerGun
AnodeVoltageMax	3000 V	PerGun
AnodeInputMax	6 W	PerGun
PostAcceleratorVoltageTypical	6000 V	PerGun
AnodeVoltageTypical	3000 V	PerGun
Heater Voltage v v 4 o 4 o o o o s 6	3 V	GENERAL
D1 to All Other Electrodes	11.5 pF	Direct Interelectrode Capacitances Maximum
D2 to All Other Electrodes +v v v v 4 o +	11.5 pF	Direct Interelectrode Capacitances Maximum
D3 to All Cther Electrodes o v +v o 2 o o	11.5 pF	Direct Interelectrode Capacitances Maximum
D4 to All Other ElectrodeS v v v o o o o	11.5 pF	Direct Interelectrode Capacitances Maximum
Post Accelerator Contact Aligns With Trace of D1-D2 +	10 deg	MECHANICAL
D1-D2 Trace Aligns with Pin No 4 and Tube Axis +	10 deg	MECHANICAL
Angle Between D3-D4 and D1-D2 Traces 90 +	1 deg	MECHANICAL
Anode Input i 4 v 4 4 e	4 W	MAXIMUM RATINGS
Post Accelerator Voltage 6	0 V	MAXIMUM RATINGS
Anode Voltade v +v 2 + o s o a0 se 6 o 3	0 V	MAXIMUM RATINGS
Focusing-Electrode Voltage	575–875 V	MAXIMUM RATINGS
Dl and D2 GUN B2 4 5 o o o +	80–110 V	MAXIMUM RATINGS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D3 and P4 2 4 5 2 o o s 2 a o 2 o	62–98 V	MAXIMUM RATINGS
Focusing-Electrode Current + 4 +	15–10 uA	MAXIMUM RATINGS