

ELECTRONIC TUBE REFERENCE

NSP1

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TETRODE

Cold-cathode gas-discharge tetrode for stroboscopic neon-red light and very-high-peak-current pulse service. Ionized discharge produces intense short-duration conduction and light.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
MAXIMUM PLATE VOLTAGE	440 V
MAXIMUM CATHODE CURRENT	100 mA
Published Ferranti ratings and characteristics promoted where applicable; additional electrical, pulse, regulator, microwave, and operating data retained as parameters.	

Cold-cathode gas-discharge tetrode for stroboscopic neon-red light and very-high-peak-current pulse service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Ferranti

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

1963 FERRANTI

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage static maximum	440 V	—
Anode voltage working maximum	380 V	—
Anode voltage working minimum	220 V	—
Peak inverse anode voltage maximum	350 V	—
Average anode current maximum	100 mA	—
Discharge capacitance maximum	16 uF	—
Average trigger current maximum	10 mA	—
Flashing frequency maximum	250 Hz	—
Recommended peak anode current minimum	5 A	Pulse
Example peak anode current	230 A	Pulse
Example peak luminous intensity	460 cd	Pulse
DC supply voltage	300 to 330 V	—
Trigger pulse amplitude minimum	150 V	Pulse
Charging resistor	3000 ohm	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Static striking voltage	80 to 130 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Trigger current minimum at 380 V anode	50 uA	—
Trigger current minimum at 220 V anode	300 uA	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Stroboscopic light / high-peak-current pulse source	—

TUBE TINKER

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

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