

ELECTRONIC TUBE REFERENCE

ZR7512

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

SPARKGAPPULSESWITCH

Cold-cathode triggered vacuum spark gap for high-voltage, high-current switching and crowbar service. Triggered breakdown rapidly diverts stored electrical energy.

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 SparkGapPulseSwitch
No fixed ratings recorded.
Triggered vacuum gap. Published main-gap and trigger-gap ratings are device-specific and are preserved densely in TUBE_SECTION_PARAMETER; ordinary plate/grid promoted fields are not applicable.

The ZR-7512 is a cold-cathode triggered vacuum gap capable of switching 15,000 joules at high voltage. It combines wide operating-voltage range, easy triggering, high-current pulse capability, rapid recovery, stability and reliability for crowbar and stored-energy switching 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 · SparkGapPulseSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode Leakage Resistance	10000 Mohm	—
Main Gap Operating Voltage	300–45000 V	MainGap
Main Gap Hold-Off Voltage Indefinite Minimum	55000 V	MainGap
Main Gap Peak Current Unidirectional Pulse Maximum	50000 A	MainGap
Charge Conducted Through Gap Per Operation Maximum	0.7 C	MainGap
Discharge Rate Maximum	2 per_min	MainGap
Delay Time Maximum	0.1 us	MainGap;AppliedVoltage=45kV
Jitter Maximum	0.1 us	MainGap;AppliedVoltage=45kV
Trigger Peak Voltage Typical	5000 V	TriggerGap
Trigger Short-Circuit Current Typical	40 A	TriggerGap

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Trigger Firing Voltage Range	1000–3000 V	TriggerGap

APPLICATIONLIMIT		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Permitted Trigger Short-Circuit Current	100 A	TriggerGap
Preferred Trigger Pulse Width Maximum	2 us	TriggerGap

TUBE TINKER

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