

ELECTRONIC TUBE REFERENCE

721B

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MICROWAVETR SWITCH

Hydrogen gas switching tube for roughly 2.8–3.33 GHz pulsed microwave service. Its discharge provides rapid RF-path control in radar systems.

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 MicrowaveTRSwitch
No fixed ratings recorded.
Published electrical section from 721B.pdf; identical repeated sections compressed when applicable.

Three-electrode hydrogen-filled gas switching tube for microwave pulse systems, specified over 2800–3330 MHz with recovery-time and ignitor-current ratings.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Microwave TR Switch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Recovery Time (Note 1)	7 μs	Recovery Time (Note 1) 7 usecs (max.)
Peak Dissipation	100 W	Peak Dissipation 100 watts
Average Dissipation	1 W	Average Dissipation 1 watt
Ignitor Open Circuit -800 to	-1000 V	Ignitor Open Circuit -800 to -1000 Vde

TUBE TINKER

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and their source documents.

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