

ELECTRONIC TUBE REFERENCE

8574

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MICROWAVETRSwitch

Broadband gas-filled transmit-receive switching tube designed to protect a microwave radar receiver from high-power transmitter pulses while permitting reception between pulses.

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.
Microwave TR discharge section.

The 8574 is a broadband gas-filled transmit-receive tube used to protect a microwave receiver during transmitter pulses.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Microwave TR Switch

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operational Frequency Minimum	8500 MHz	—
Operational Frequency Maximum	9600 MHz	—
Maximum VSWR	1.25 ratio	—
Ignitor Ignition Time	1 s	—
Ignitor Voltage Drop Minimum	-400 V	—
Ignitor Voltage Drop Maximum	-200 V	—
Spike Leakage Energy	0.3 erg	8900MHz; 200kW
Flat Leakage Power	0.1 W	8900MHz; 20kW
Insertion Loss	0.2 dB	—
Recovery Time	3 us	20kWPeak

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Transmitter Peak Power	20 kW	—

TUBE TINKER

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and their source documents.

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