

ELECTRONIC TUBE REFERENCE

F3004

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MICROWAVETR SWITCH

Broadband gas-filled TR protection tube for military radar service. Its discharge rapidly isolates and protects the receiver during transmitter pulses.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1	MicrowaveTRSwitch
No fixed ratings recorded.	

The F3004/AR414 is a broadband fixed-tuned gas-discharge TR tube using pre-tuned spark gaps and a keep-alive ignitor for radar receiver protection.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1972 Thomson CSF

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

1972 THOMSON CSF

Section 1 · Microwave TR Switch

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range	2900–3230 MHz	—
Ignitor Voltage Drop	200–500 V	—
Recovery Time at 3 dB Maximum	40 us	—
Insertion Loss Maximum	0.7 dB	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RF Peak Power Maximum	30 kW	—
Ignitor Pulse Voltage Peak	600 V	—
Duty Cycle	0.001	—
Ignitor Peak Current Maximum	3 mA	—