



## ELECTRONIC TUBE REFERENCE

## F4024B

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## TRAVELINGWAVE

Broadband traveling-wave amplifier covering 2.15–4.30 GHz, providing over 40 dB gain with approximately 30–60 mW saturated output.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | –                 | BASE PINS            | –             |
| NOMINAL HEATER      | 6.3 V / –         | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                         |         |
|-------------------------|---------|
| SECTION 1 TravelingWave |         |
| MAXIMUM PLATE VOLTAGE   | 700 V   |
| MAXIMUM CATHODE CURRENT | 1.63 mA |

The F4024B is a broadband traveling-wave amplifier covering 2.15–4.30 GHz.

## 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 · TravelingWave

| CHARACTERISTIC         |                 |                  |
|------------------------|-----------------|------------------|
| PARAMETER              | PUBLISHED VALUE | CONDITION / NOTE |
| Frequency Range        | 2.15-4.30 GHz   | —                |
| Heater Voltage         | 6.3 V           | —                |
| Heater Current         | 400 mA          | —                |
| Saturated Output Power | 0.03-0.06 W     | —                |
| Gain                   | 40+ dB          | —                |

| OTHER                      |                 |                  |
|----------------------------|-----------------|------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum High/Anode Voltage | 700 V           | —                |
| Warm-up Time               | 120 s           | —                |