



## ELECTRONIC TUBE REFERENCE

# BM1031

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**  
CONSTRUCTION  
**MAGNETRON**

Fixed-frequency high-power pulsed magnetron designed for radar and related short-pulse microwave service in its specified operating band.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 800 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

**SECTION 1** Magnetron

*No fixed ratings recorded.*

*Special-purpose microwave device; applicable published data retained as parameters.*

Fixed-frequency X-band pulse magnetron, 9420–9500 MHz, typically 40 kW peak output.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1971 English Electric Valve

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

## 1971 ENGLISH ELECTRIC VALVE Section 1 · Magnetron

| CHARACTERISTIC    |                 |                  |
|-------------------|-----------------|------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE |
| Frequency minimum | 9420 MHz        | —                |
| Frequency maximum | 9500 MHz        | —                |

| OTHER              |                 |                  |
|--------------------|-----------------|------------------|
| PARAMETER          | PUBLISHED VALUE | CONDITION / NOTE |
| Peak output power  | 40 kW           | typical          |
| Peak anode voltage | 14 kV           | —                |
| Peak anode current | 12 A            | —                |

### TUBE TINKER

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and their source documents.

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