



ELECTRONIC TUBE REFERENCE

4J31

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Fixed-frequency S-band pulse magnetron covering approximately 2.86–2.90 GHz for high-peak-power microwave oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	16 V / 3.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	30000 V

Fixed-frequency S-band pulse magnetron covering 2860 to 2900 MHz.

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 range	2860–2900 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical peak output power	1000 kW	Pulse
Maximum peak anode voltage	30 kV	Pulse
Heater voltage	16 V	—
Heater current	3.1 A	—
Minimum cathode heating time	2 min	—

TUBE TINKER

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and their source documents.

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