



ELECTRONIC TUBE REFERENCE

CV1810

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 / 15 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM CATHODE CURRENT	30 A

Fixed-frequency S-band pulse magnetron covering 2700 to 2740 MHz. Explicit equivalent/service designation printed in approved source.

SOURCE OPERATING CONDITIONS

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	2700–2740 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical peak output power	300 kW	Pulse
Typical peak anode voltage	20 kV	Pulse
Typical peak anode current	30 A	Pulse
Duty cycle	0.001	Pulse
Heater voltage	6.3 V	—
Heater current	15 A	—
Minimum cathode heating time	2 min	—
Magnetic field	1900 gauss	—

TUBE TINKER

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and their source documents.

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