ELECTRONIC TUBE REFERENCE

CV1807

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

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM CATHODE CURRENT	30 A

Fixed-frequency S-band pulse magnetron covering 2820 to 2860 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	**2820–2860 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

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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