

ELECTRONIC TUBE REFERENCE

CV2744

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Fixed-frequency S-band pulsed magnetron operating over approximately 2740–2780 MHz. Intended as a microwave pulse oscillator, with the CV designation documented as an equivalent or service designation in the approved source.

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

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	30000 V

Fixed-frequency S-band pulse magnetron covering 2740 to 2780 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	2740–2780 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	—