

ELECTRONIC TUBE REFERENCE

7795

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MAGNETRON

C-band continuous-wave magnetron designed for communications, telemetry, relay, and modulated microwave service around 4.2-4.4 GHz.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Magnetron
No fixed ratings recorded.
Source-derived physical/electrical section.

Westinghouse January 1, 1941 MAGNETRON TYPE 7795 Fixed Frequency 5 Watt Qutput Integral Magnets 4300 + 10 Megacycles 100% Amplitude Modulated 10 Watts with Duty Cycles The 7795 is a C band 5 watt CW magnetron. It is designed for amplitude modulated communications, telemetering and relay systems requiring high average power with good bandwidth. In pulse code modulation systems peak powers up to 10 watts are available with duty cycles ranging to five watts average power. In amplitude modulated systems one hundred percent modulation of a five watt carrier is permitted. With 100% modulation incidental FM is less than B megacycles. The rugged, light weight design of the 7795 permits use on airborne systems where shock and vibration are severe, The 7795 uses a multivaned anode structure and an oxide coated unipotential cathode. It contains a capacitive tuning element preset in the factory to 4300 * 10 megacycles. The integral magnets are enclosed in steel shells to shield the magnetron from s

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Westinghouse

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

1947 WESTINGHOUSE

Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Fixed Frequency	5	Fixed Frequency 5 Watt Output Integral Magnets
4300 + 10 Megacycles 100% Amplitude Modulated 10 Watts with	10	4300 + 10 Megacycles 100% Amplitude Modulated 10 Watts with Duty Cycles
The	5	The 7795 is a C band 5 watt CW magnetron. It is designed for amplitude modulated communications, telemetering
powers up to	10	powers up to 10 watts are available with duty cycles ranging to five watts average power. In amplitude modulated
systems one hundred percent modulation of a five watt carrier is permitted. With	100	systems one hundred percent modulation of a five watt carrier is permitted. With 100% modulation incidental FM is
less than B megacycles. The rugged, light weight design of the	7795	less than B megacycles. The rugged, light weight design of the 7795 permits use on airborne systems where shock
Voltage (Note	425	Voltage (Note 1) , ... i v 6.3 Volts Anode Voltage vivsnenoenan 425 max. Volts
Current o o v v o t e e e e e	1	Current o o v v o t e e e e e 0.6 £ 10% Amparss Modulation Frequeney. . . . o v v v vt vt 1 max. Mc.
Heating Time (minimum)	30	Heating Time (minimum) 40 Seconds Average Power Input 30 max. Watts
MECHANICAL : Heater-Cathode Voltage +	45	MECHANICAL : Heater-Cathode Voltage + 45 max. Volts
Operating Voltages. Special	425	Operating Voltages. Special 8-Pin In-Line Socket Cathode Voltage « o t i v v i v i n i o o ~425 Volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ambient Temperature ~	70	Ambient Temperature ~55 10 +70°C Power Output:
Shell Temperature (maximum) ...,	10	Shell Temperature (maximum) ..., ...40°C Above Ambient Peak Power at 0.5 Min, Duty e 10 Watts
Vibration: (Note	5	Vibration: (Note 2) Average Continuous Power (Note 3). 5 Watts
Frequency . . . oo v v e	4300	Frequency . . . oo v v e 25 CPS Frequency (Note §). . . v v e v v iie oo oo 4300 Mc.
Amplitude	210	Amplitude . . . 0oL P, 0.080 Inches Frequency Tolerance cvee L. 210 Me.
3. 100% amplitude modulation with 5 watts carrier is permitted	5	3. 100% amplitude modulation with 5 watts carrier is permitted.
between	10	between 4200 and 4400 megacycles with a tolerance of t 10

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
tuning element preset in the factory to	10	tuning element preset in the factory to 4300 * 10 megacycles. The integral magnets are enclosed in steel shells

TUBE TINKER

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and their source documents.

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