

ELECTRONIC TUBE REFERENCE

CMP1115

Specialized - Microwave Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MICROWAVE

Liquid-cooled crossed-field Carpitron microwave amplifier for 5.925–6.425 GHz telecommunications service, producing at least 500 W continuous-wave output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	–	BASE PINS	–
NOMINAL HEATER	6.3 V / 3 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Microwave	
MAXIMUM CATHODE CURRENT	50 mA
Crossed-field amplifier section. Specialized anode 1/anode 2/sole quantities retained in parameters; fixed schema has no exact promoted fields.	

The Thomson-CSF CMP1115 Carpitron is a liquid-cooled crossed-field microwave amplifier with an integral magnet, providing at least 500 W CW output over the 5925–6425 MHz telecommunications band.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1972 Thomson CSF

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

1972 THOMSON CSF

Section 1 · Microwave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage nominal	6.3 V	—
Frequency range minimum	5925 MHz	—
Frequency range maximum	6425 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current typical	4 A	—
Minimum CW output power	500 W	—
Typical output power	600 W	Frequency=6064MHz
Instantaneous bandwidth	40 MHz	—
Anode 1 voltage typical	1500 V	—
Anode 2 voltage typical	3300 V	—
Anode 2 voltage maximum	3800 V	—
Sole voltage minimum	-1800 V	—
Sole voltage maximum	-600 V	—
Grid 1 voltage minimum	-800 V	—
Grid 1 voltage maximum	-100 V	—
Anode 2 current maximum	50 mA	—

TUBE TINKER

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and their source documents.

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