

ELECTRONIC TUBE REFERENCE

CO20A

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Water-cooled millimeter-wave Carcinotron backward-wave oscillator covering approximately 150-156 GHz, with permanent-magnet focusing and frequency or amplitude modulation capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	-7.44 V / 2.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave	
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM CATHODE CURRENT	10 mA

The CO20A is a millimetric backward-wave oscillator with integral permanent-magnet focusing, water cooling, and frequency/amplitude modulation over approximately 150-156 GHz.

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 · TravelingWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range	150-156 GHz	—
RF Output Power	0.2-1.5 W	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Voltage	3000 V	—
Maximum Anode Current	10 mA	—
Maximum Line Voltage	7000 V	—
Maximum Line Current	80 mA	—
Minimum Warm-up Time	4 min	—
Maximum Load VSWR	5:1	—

TUBE TINKER

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and their source documents.

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