

Carcinotron *CSF* CO 43



CO 43 7,000 to 11,000 MCs WIDE ELECTRONIC TUNNING BAND OSCILLATOR

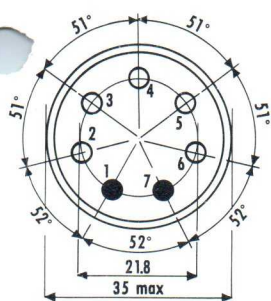
The "Carcinotron" CO 43 tube with integral magnet gives a power of about 15 to 150 mW between 7,000 and 11,000 Mc/s.

The frequency varies in a continuous manner as a function of line voltage without hysteresis or lack of oscillations. The frequency variation due to the pulling is very low.

The tetrode structure of the gun allows amplitude modulation or pulse operation by acting on the Wehnelt grid or anode voltage. Frequency modulation, by variation of the line voltage, requires a very weak power control.

TENTATIVE
DATA

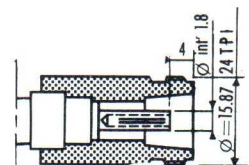
PIN ARRANGEMENT



- 1- Filament
- 2- Cathode
- 3- Anode
- 4- Grid
- 5 (Line
- 6 (Collector
- 7- Filament

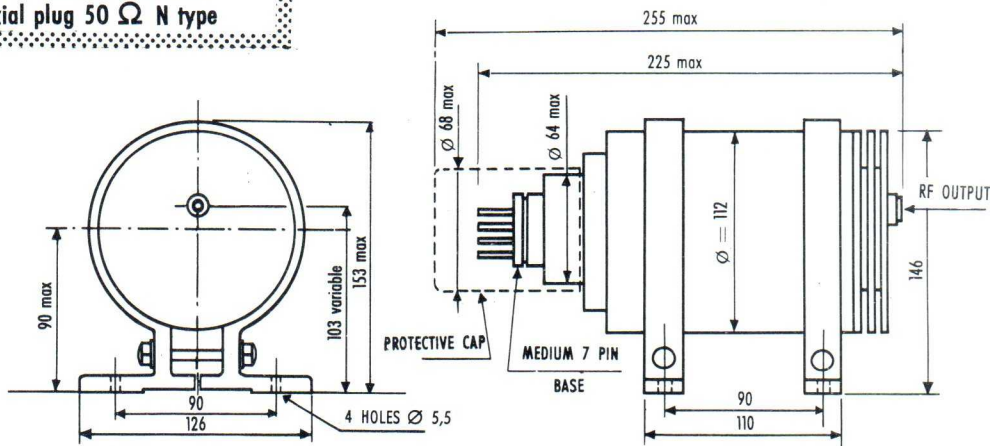
Net Weight : 5 Kg.

RF OUTPUT



Coaxial plug 50 Ω N type

LAYOUT



DIMENSIONS IN MM

COMPAGNIE GÉNÉRALE DE T.S.F.

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GENERAL CHARACTERISTICS

Oxide coated cathode indirectly heated	
Filament voltage (V)	6.3 ± 5%
Filament current (A).	2.1
Capacitances :	
Wehnelt grid to all electrodes (pF)	14
Anode to all electrodes (pF)	13
Line to all electrodes (pF)	17
Cathode to filament (pF)	7
Blowed air cooling :	
Flow (cu. dm/sec)	10
Pressure (g/sq. cm).	2.5

MAXIMUM RATINGS

Anode voltage (V)	300
Line voltage (V)	1500
Line current (mA)	25
Wehnelt grid bias (V)	0 to - 20
Collector line dissipation (W)	37

TYPICAL OPERATION

Wehnelt grid voltage (V)	-20
Line and collector voltage (V)	350 to 1450
Line and collector current (mA)	10 to 25
Anode voltage (V)	100 to 300
Anode current (mA)	0 to 10
Output power (mW) :	
at 7,000 Mc/s	≥ 20
at 8,000 Mc/s	≥ 50
at 9,000 Mc/s	≥ 80
at 10,000 Mc/s	≥ 100
at 11,000 Mc/s	≥ 60

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