Carcinotron CSF CO 63

CO 63
4,800 to 9,600 MCs

WIDE ELECTRONIC TUNNING BAND OSCILLATOR

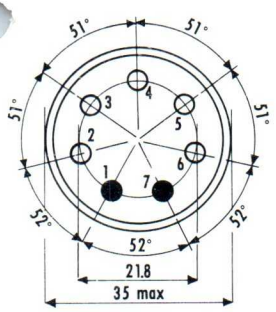
The "Carcinotron" CO 63 tube with integral magnet gives a power of about 15 to 150 mW between 4, 800 and 9, 600 Mc/s.

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

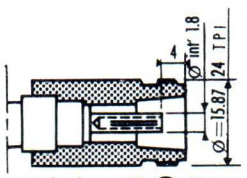
PIN ARRANGEMENT



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

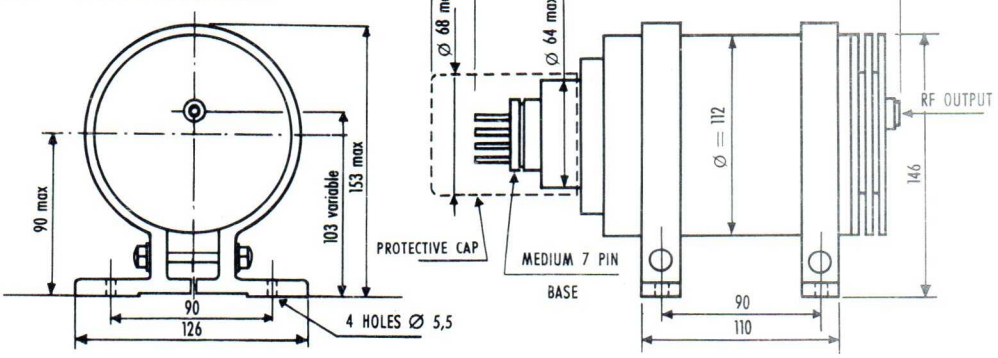
Net Weight : 5 kg.

RF OUTPUT



Coaxial plug 50 Ω N type

LAYOUT



DIMENSIONS IN MM

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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)	1450
Line current (mA)	35
Wehnelt grid bias (V)	0 to 20
Collector line dissipation (W)	42

TYPICAL OPERATION

Wehnelt grid voltage (V)	0
Line and collector voltage (V)	170 to 1400
Line and collector current (mA)	10 to 30
Anode voltage (V)	50 to 250
Anode current (mA)	0 to 10
Output power (mW) :	
at 5, 000 Mc/s	$\geqslant$ 15
at 6, 000 Mc/s	$\geqslant$ 30
at 7, 800 Mc/s	$\geqslant$ 60
at 8, 000 Mc/s	$\geqslant$ 80
at 9, 000 Mc/s	$\geqslant$ 100
at 10, 000 Mc/s	$\geqslant$ 150

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