

7T85RB

Triode



The Penta 7T85RB is an external anode triode of ceramic to metal construction, intended for use as an industrial oscillator at VHF. The anode is capable of dissipating 2.5 kilowatts during continuous commercial service. Cooling is accomplished by forced air. Maximum ratings apply at frequency up to 110MHz. 7T85RB is a improved type of 7T85RA.

General Characteristics

Electrical

Filament: Thoriated tungsten

Voltage	6.3+/-5% V
Current	35 A
Amplification factor	21
Transconductance (Ib=0.35Adc)	5 mv
Direct interelectrode capacitances	
Grid - Anode	13 pF
Grid - Filament	15 pF
Anode - Filament	0.5 pF
Frequency of maximum ratings	110 MHz

Overall Dimensions

Length	211 mm
Diameter	130 mm
Mounting position	Vertical, Anode up or down

(Revised 10/13/95)



P E N T A L A B O R A T O R I E S

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ELECTRON TUBES FOR INDUSTRY



7T85RB

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Mechanical

Overall Dimensions	
Length	211 mm
Diameter	130 mm
Mounting position	Vertical, Anode up or down
Cooling: Forced air*	
Radiator	
Minimum air flow	3.3 m ³ / min
Minimum static pressure	17 mm of water
Maximum incoming - air temperature	45 °C
Maximum radiator temperature	
(Measured on the anode core)	250 °C
Maximum temperature of the ceramic-metal seal	250 °C
Weight	1.5 kg

*Air flow should be delivered by a blower through radiator and onto each terminal before the application of any voltage.

Radio Frequency Amplifier & Oscillaor-Class C telegraphy
(Key-down condition per tube without amplitude modulation)

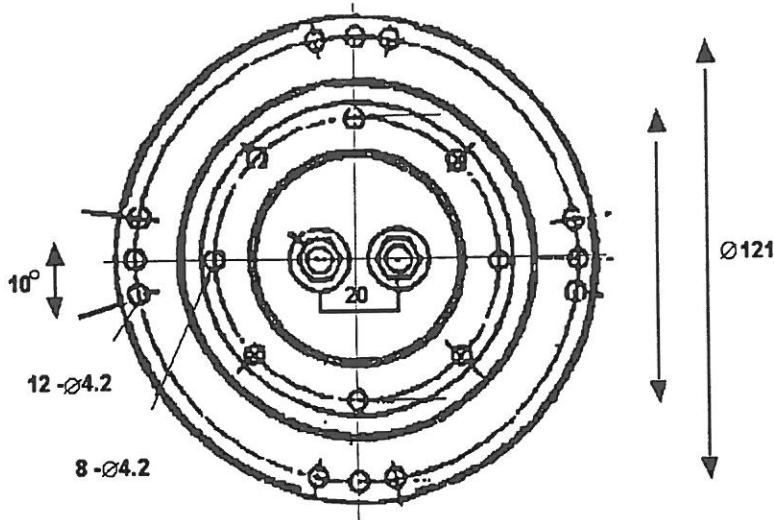
Maximum Ratings	Continuous Service	Intermittent Service	
DC plate voltage	8	8.5	kV
DC grid voltage	-1500	-1500	V
DC plate current	1	1.2	A
DC grid current	300	350	mA
Plate input	7.5	8.5	kW
Plate dissipation	2500	2500	W
Grid dissipation	130	150	W

Typical Operation	Continuous Service	Intermittent Service	
DC plate voltage	7.5	8	kV
Grid resistor (Approx.)	4.5	4.5	kΩ
DC plate current	0.9	1.0	A
DC grid current(Approx.)	0.2	0.25	A
Power Output(Approx.)	5.1	6.0	kW

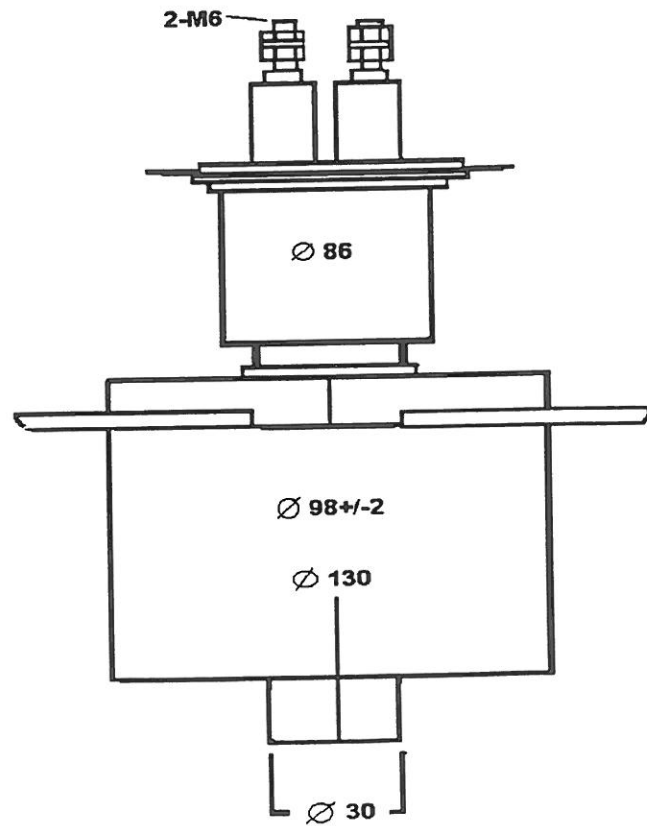
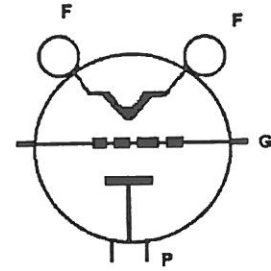


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Unit: mm





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