

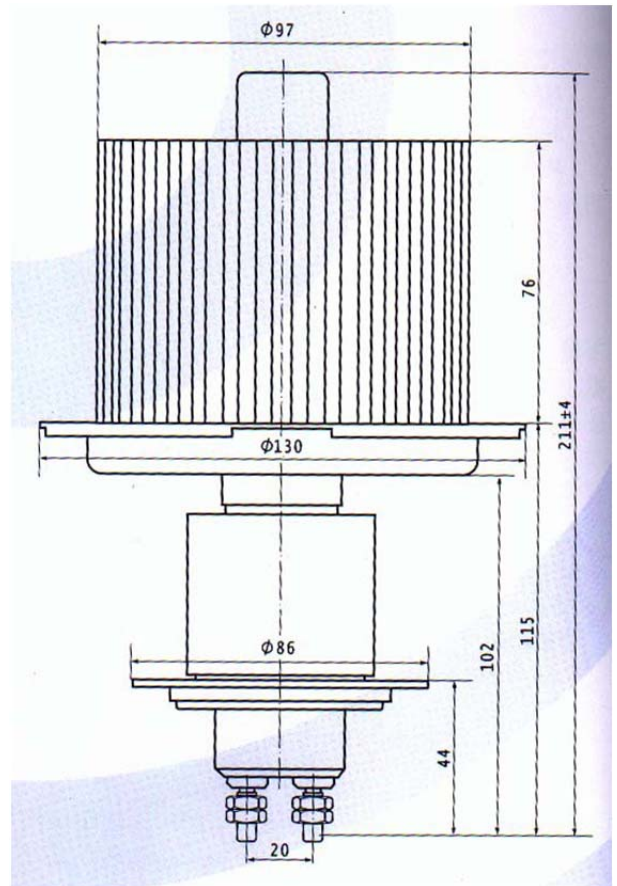
# 7T85RB

7T85RB is a metal/ceramic, forced air cooled triode, intended for use in industrial radio frequency heating as oscillator. Max plate dissipation: 2.5KW, max frequency: 110MHZ.

Grid current	200	250	mA
Grid impedance	4500	4500	Ω

## General Characteristics

Filament voltage	6.3	V
Filament current	35	A
Transconductance(Ia=0.35A)	5	mA/V
Amplification factor	21	
Interelectrode capacitance		
Grid- Anode	13	pF
Grid- Cathode	15	pF
Anode- Cathode	0.5	Pf
Operating frequency, max	110	MHz
Height, max	215	mm
Diameter, max	130	mm
Weight	1.5	kg
Operating position	Vertical	Operating
Cooling	Forced air	
Cooling air flow, min	3.3	M <sup>3</sup> /min
Static pressure, min	166	Pa
Inlet air temperature, min	45	°C
Max temperature at seal	250	°C
Max temp. on tube surface	250	°C



## Maximum ratings

### (Class C Telegraphy)

	CW	Transient	
Anode voltage	8	8.5	kV
Anode current	1.0	1.2	A
Grid current	0.3	0.35	A
Anode dissipation	2.5	2.5	kW
Grid dissipation	130	150	W

## Typical operation

### Class C radio frequency power amplifier or oscillator

	CW	Transient	
Anode voltage	7.5	8	kV
Anode current	0.9	1	A
Anode output power	5.1	6	Kw

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