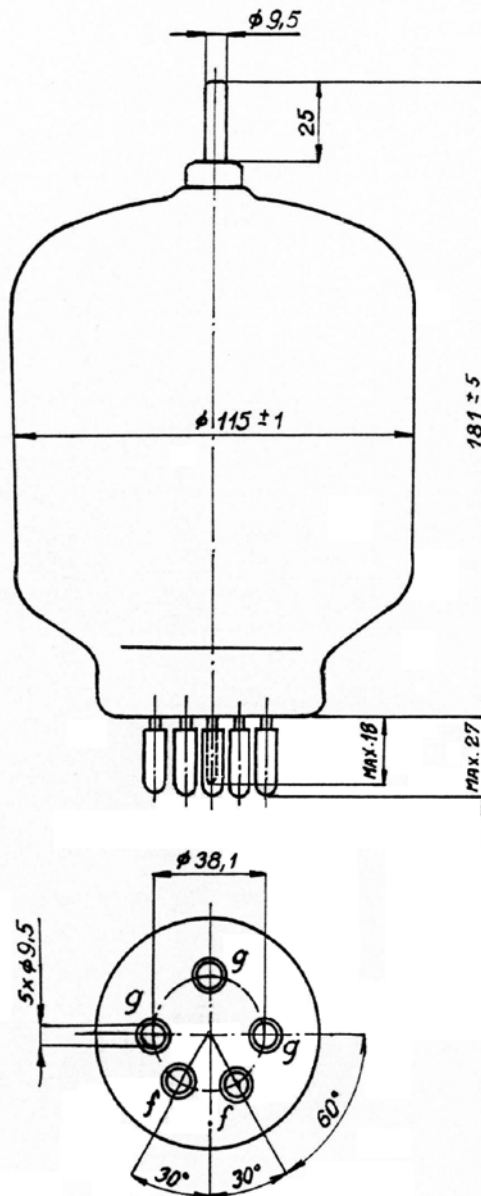


RD 450 A

The RD 450 A is a radiation cooled power triode with glass envelope for frequencies up to 100 MHz. The maximum anode dissipation rating is 450 W. The RD 450 A is primarily intended for use as R.F. or A.F. power amplifier or oscillator.



RD 450 A

HEATING DATA

Filament voltage	V_f	10	V
Filament current	I_f	approx. 10	A
Cathode	thoriated tungsten, direct heating		

For allowed tolerances and other limitations see the General part of the catalog.

MAXIMUM RATINGS

Anode voltage ($f = 30$ MHz)	V_a	4	kV
Cathode mean current	I_{km}	0,7	A
Control grid voltage	V_g	- 500	V
Control grid current	I_g	130	mA
Anode dissipation	W_a	450	W
Grid dissipation	W_g	50	W
Frequency for full ratings	f	30	MHz
Frequency at reduced ratings	f	100	MHz

GENERAL DATA

Electrical

Inter - electrode capacitance:	grid to filament	$C_{g/k}$	9	pF
	grid to anode	$C_{a/g}$	7,5	pF
	anode to filament	$C_{a/k}$	0,2	pF
Mutual conductance	S	4,5	mA / V	
(at $V_a = 3$ kV, $I_a = 0,1$ A)				
Amplification factor	μ	14		
(at $V_a = 3$ kV, $I_a = 0,1$ A)				
Emission current	I_{em}	min. 5	A	
(at $V_a = V_g = 800$ V)				

Mechanical

Mounting position	vertical, anode up		
Weight	G	0,41	kg

Cooling

Ambient temperature	radiation / low velocity air flow		
Maximum temperature of any surface part	appr. + 25		°C
	170		°C

In case when the maximum permissible temperature is likely to be exceeded, a low velocity air flow has to be directed onto the anode seal and bottom of the envelope.

It is recommended to operate the tube inside a glass chimney which concentrates the air flow.

For other limitations see the General part.

CONSTANT CURRENT CHARACTERISTICS

RD 450 A

