

BM-25 Forced-air cooled electron tube

Output power 54.7 KW

RF Metal-ceramic triode
Mainly used for industrial applications.
The anode cooling is forced air

Maximum anode dissipation power : 35 KW
Maximum operating frequency 60 MHz
Output power up to 60 KW



Electrical parameters:

Filament voltage	10	V
Filament current	210	A
maximum instantaneous filament current	315	A
Magnification factor	22	
Transconductance	63m	A / V

Electrode capacitance:

Anode - the gate	47	pF
Cathode - the gate	88	pF
Anode - Cathode	4	pF

The maximum anode DC voltage	12	KV
Maximum anode DC current	8.5	A
Maximum grid DC current	2.5	A
Maximum anode dissipation power	35	KW
Maximum grid power dissipation	1	KW

Mechanical properties:

Quality	15.5 Kg approx
Cooling method	forced air-cooled
Anode air-cooled flow F	≥ 30m ³ /min
Core column air-cooled flow	≥ 1 m ³ /min
Shell and tube maximum temperature	250 °C
Leads to the end of the max. temperature of	200 °C
Installation	vertical, anode down

In typical operation class C telegraph

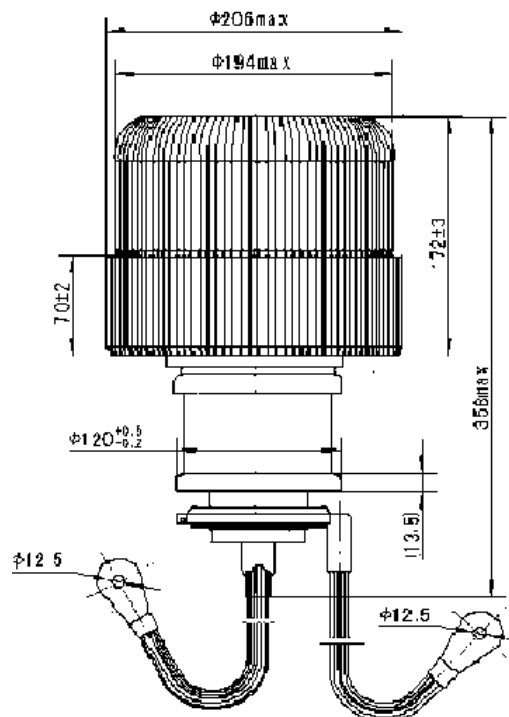
Filament voltage	10	V
Anode DC voltage	10	KV
Grid DC bias	-1200	V
Anode DC Current	6.87	A
Grid DC current	1.32	A
Anode output power	54.7	KW
Sealing at the highest temperature	250	°C

Working status:

B M-25

In typical operation class C telegraph

Ua (kV)	10	11	12
Uam (kV)	8.5	9	10
-Ug (kV)	-1.2	-1.35	-1.5
Ugm (kV)	1.54	1.7	1.85
Iao(A)	6.87	7.41	6.97
Igo (A)	1.32	1.22	1.16
Pin (kW)	68.7	81.5	83.6
Pout (kW)	54.7	62.66	65.9
η_a (%)	79.6	76.9	78.8
Pa (kW)	14	18.84	17.7
Pgd (kW)	1.95	2	2.07
Pg (kW)	0.37	0.36	0.34
Roe (Ω)	660	646	759
Rg (Ω)	909	1106	1293
Uf (V)	10	10	10



Constant current characteristics

