

BM-8 Forced-air cooled electron tube

Output power 13 kW in CW mode

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

Maximum Anode dissipation power: 6 KW
Maximum operating frequency 110 MHz



Electrical parameters:

Filament voltage	12.6	V
Filament current	45	A
maximum instantaneous filament current	67	A
Magnification factor	21	
Transconductance	17m	A / V

Electrode capacitance:

Anode - the grid	15	pF
Cathode - the grid	20	pF
Anode - Cathode	0.7	pF

The maximum anode DC voltage	8	KV
Maximum negative grid DC voltage	-1500	V
Maximum anode DC current	2.5	A
Maximum grid DC current	550	mA
Maximum anode dissipation power	6	KW
Maximum grid power dissipation	200	W

Mechanical properties:

Quality	2.8Kg (F) approx
Cooling method	forced air cooling
Air-cooled anode flow	≥ 8m ³ /min
Minimum static pressure	55 mm water column
Heat sink the maximum operating temperature	250 °C
The inlet air temperature	45 °C
Installation	vertical, anode down

In typical operation class C telegraph

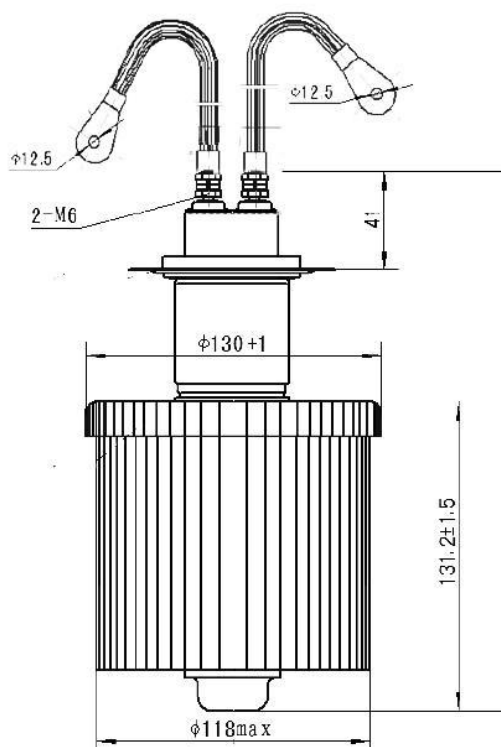
Filament voltage	12.6	V
Anode DC voltage	8	KV
Anode DC Current	2.3	A
Grid DC current	390	mA
Grid impedance	3.5	K Ω
Anode output power	13	K

Working status:

B M-8

In typical operation: class C telegraph

Ua (kV)	5	6	7	7,5
Uam (kV)	4,25	5,25	6,25	6,75
-Ug (kV)	-0,7	-0,8	-1	-1
Ugm (kV)	0,92	1,02	1,22	1,22
Iao(A)	1,82	1,77	1,64	1,63
Igo (A)	0,38	0,36	0,32	0,31
Pin (kW)	9,1	10,64	11,49	12,19
Pout (kW)	7,21	8,72	9,69	10,34
ηa (%)	79,4	81,9	84,2	84,7
Pa (kW)	1,87	1,92	1,8	1,85
Pgd (kW)	0,331	0,357	0,376	0,367
Pg (W)	68	66	58	57
Roe (k Ω)	1,25	1,63	2,02	2,2
Rg (k Ω)	1,84	2,22	3,13	3,23
Uf (V)	7,5	7,5	7,5	7,5



Constant current characteristics

