

Features:

- Output power: 45KW
- Anode voltage: 13KV
- Anode dissipation: 20KW
- Frequency up to 120 MHz



Description:

Water-cooled triode for industrial RF oscillation and RF heating

CTK15-2 is a High Frequency Metal ceramic transmitting tube designed specifically for industrial applications. It intended for induction RF oscillation and delivery continuous RF power of 45KW. This water-cooled triode tube uses a coaxial design and metal-ceramic technology. It uses reticular formation thoriated tungsten cathode and pyrolytic graphite grid technology. It may be operated in CW or pulse modes. The Maximum operating frequency is 120MHz.

Technical Specifications

Cathode	thoriated tungsten
Filament voltage	7.2 V
Filament current	180 A
Amplification factor	200
Transconductance	≥60 M A/V
Capacitance	
• cathode-grid	63.5 pF
• cathode-anode	0.25 pF
• grid-anode	27.5 pF
Max. temperature at any point on the tube envelop	200

Maximum ratings

Frequency	120 MHz
Anode voltage	13 KV
Grid voltage	-1500 V
Anode current, CW	8 A
Peak cathode current CW	40 A
Anode dissipation	20 KW
Grid dissipation	800 W
Output frequency	45 KW

Mechanical characteristics

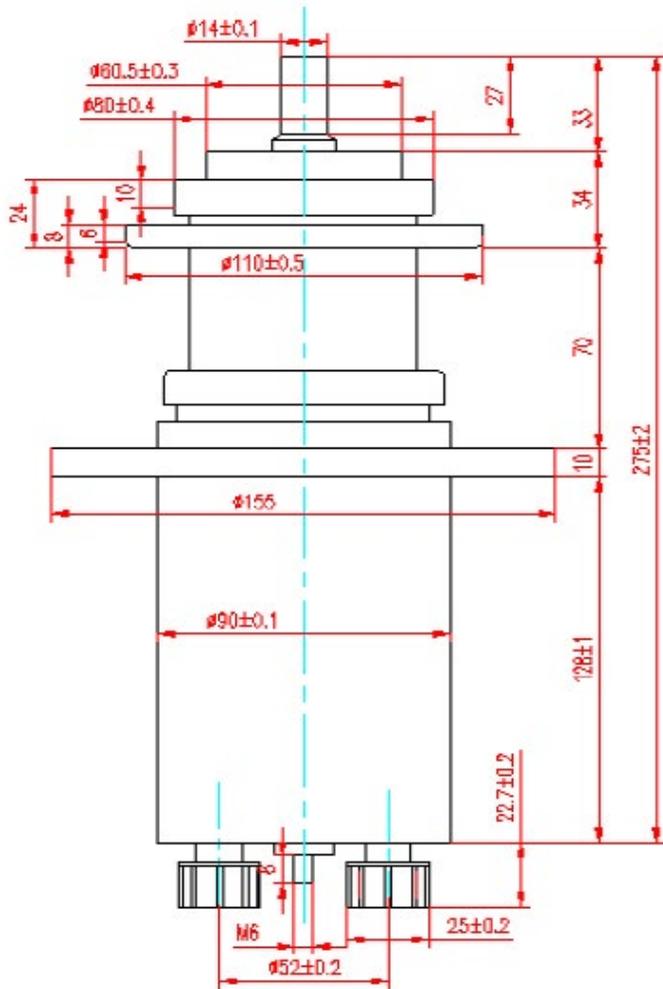
Operating position	vertical
Weight	3.8 Kg
Dimensions	155×275 mm

Classic applications

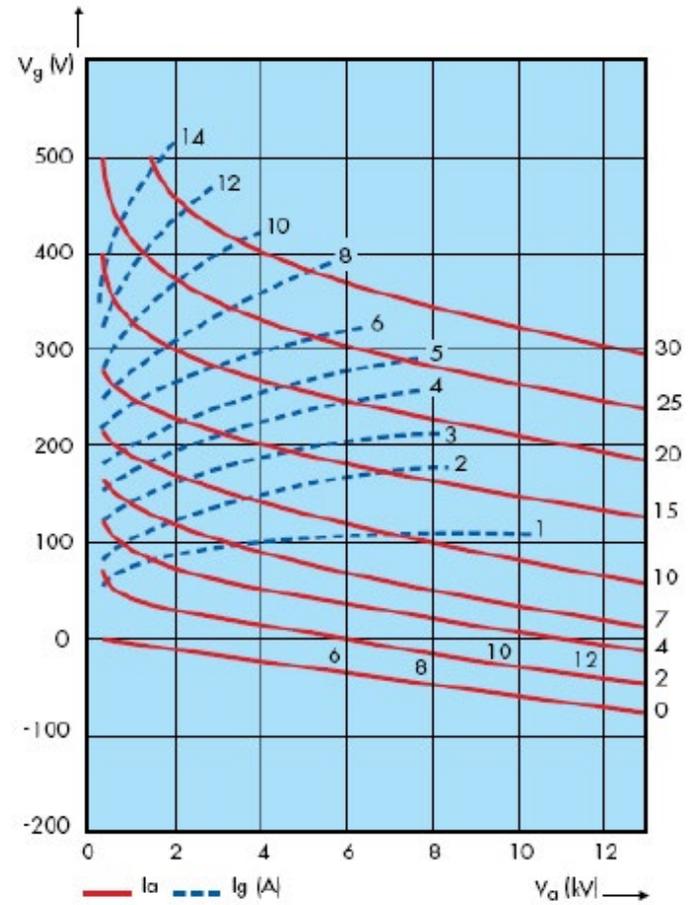
Frequency	30 MHz
Anode voltage	11 KV
Grid voltage(Eg)	-235 V
Grid voltage(Ug)	580V
Anode current	5.4 A
Anode input frequency	59.4 KW
Grid driving power	20 KW
Anode output frequency	45 KW
(Oscillator)	



Outline Drawing: (in mm)



Constant current characteristics



Note: Unless otherwise noted, dimensions are nominal values in mm. Specifications subject to change without notice.