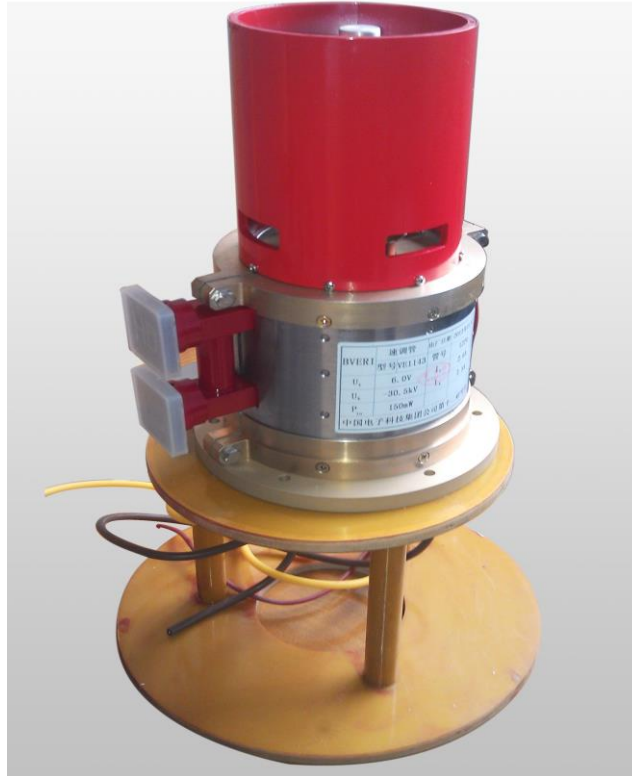


## VE1143 X Band High Power Klystron Tube



### 1. Structure characteristics

- 1.1. Structure: Metal ceramic structure
  - 1.2. Installation site: Vertical installation (electron collector upward, electron gun downward)
  - 1.3. Cooling way: Air cooling
  - 1.4. Focus means: Permanent magnet focus
  - 1.5. Output mode: Standard waveguide (BJ100)
  - 1.6. Input mode: Standard waveguide (BJ100)
  - 1.7. Temperature protection: Electron collector have temperature contactor switch
  - 1.8. Weight:  $\leq 17.5\text{kg}$
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## 2. Working conditions and typical characteristics

Working and conditions	a) Hotwire voltage	6.1±0.3V	
	b) Hotwire current	Oxide cathode ≤3.0A	Barium and tungsten cathode ≤6.8A
	c) Hotwire Preheating time	≤10 minutes	
	d) Cathode voltage	≤32kV	
	e) Cathode pulse current	≤9.0A	
	f) Pulse width	≤4μs	
	g) Pulse repetition frequency	2000Hz-200Hz	
	h) Duty cycle	≤0.4%	
	i) Ionic pump voltage	4.0kV	
	j) Ionic pump current	<30μA	
typical characteristics	a) Pulse Output power	≥75kW	
	b) Gain	≥53dB	
	c) Instantaneous bandwidth	≥30MHz	

## AppendixA1 Rate adjustable tube exterior dimension figure

