

# Electron Tube 5868(Equivalent to TB4/1250)

Is a Glass Transistor of the direct Thermal Carbonization of Thorium-Tungsten Cathode, Plate Cooling Methode for Natural Cooling, the Maximum Plate Dissipation Power is 450W,the Maximum Operating Frequency is 100MHz,the Output Power is 1690W. The tubes are mainly used for Amplification and Oscillation with the Anodic AM Amplifiers and RF Power Amplifiers and Oscillators. The tubes can Replace TB4/1250.

## Electrical Parameters

Filament Voltage	10 V
Filament Current	9.9 A
The Maximum Instantaneous Filament Current	15 A
Amplification Factor	28
Transconductance	4.5 mA/V
Eletrode Capacitance	
Plate-Grid	8 pF
Cathode-Grid	11 pF
Plate-Cathode	≤0.35 pF

## Mechanical Properties

Weight	0.42 KG
Installation	Vertical
Cooling	Natural Cooling
Maximum Temperature on Shell and Tube	225 °C
The Highest Temperature at the Sealing	220 °C
Maximum Temperature on the end of the leads	180 °C

## Maximum Ratings

Maximum DC Plate Voltage	4 KV
Maximum DC Plate Current	535 MA
Maximum DC Grid Current	115 MA
Maximum Plate Dissipation Power	450 W
Maximum Grid Dissipation Power	50 W
Maximum Plate Input Power	2.2 KW

## Typical Operation:Class C Telegraph

Filament Voltage	10 V
DC Plate Voltage	4 KV
DC Grid Bias Voltage	-350 V
DC Plate Current	535 MA
DC Grid Current	115 MA
Plate Output Power	1.69 KW

Note:Generally under Matched Load can be Naturally Cooled,but the Equipment must be well Ventilated,if in a non-Matched Load,High Pressure,High-Frequency Conditions required for Forced Air Cooling,Ventilatin should be through the outlet from the tube at the bottom of under the previous air.

