



FR-59251 Allennes Les Marais (Lille)

Phone: +33 (0) 320 53 62 98

Fax: +33 (0) 320 53 63 08

Website: <http://www.soudeuse-haute-frequence.com>

Courriel: transtec.hf@soudeuse-haute-frequence.com

ELECTRON TUBES

ELECTRICAL

Filament directly heated	
Filament Voltage +5% -10%	6.3 V
Filament Current	60 A
Max surge current	
Cold resistance	
Capacitances:	
grid-anode	16 pF
grid-cathode	21 pF
cathode-anode	0.6 pF
Amplification factor μ	70
Transconductance $V_a=4$ kV, $I_a=4$ A	12 mA/V

MAXIMUM RATINGS

Frequency	110 MHz
Anode voltage up to 30MHz	6.0 kV
Anode voltage up to 110MHz	7.0 kV
Control grid voltage	-1000 V
Anode current	2.5 A
Control-grid current at full load	0.55A
Control-grid current at no load	0.70 A
Peak cathode current:	
CW	15 A
Pulse operation	20 A
Anode dissipation:	
Inlet air 25 °C / Industrial water 5 k ohm.cm	6 kW
Inlet air 45 °C / Distilled water 50 k ohm.cm	5 kW
Grid dissipation up to 110 MHz	200 W
Grid resistor at blocked tube	20 k ohm

Equivalent Tubes:

ITL5-1
RS3010 CL
YD1160
8731

Equivalent Tubes:

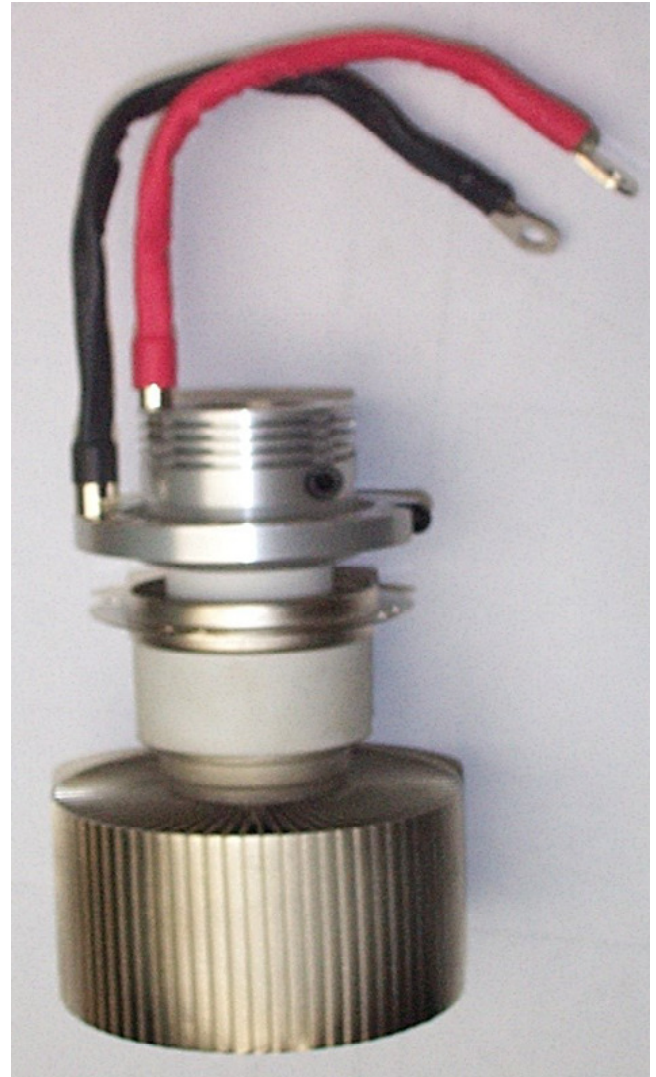
ITK5-1
RS3010 CJ
YD1162
8733

Anode cooler is calculated up to 6000w. The chimney is standard for all diameter 123mm.

Filament's connectors are made with massive aluminium. They cooled the junctions of filament without added blowing. They are supplied by two parts and with the leads.

TRIODES CA5000

Output power	10 kW
Anode Voltage	7.0 kV
Anode current	2.5 A
Anode dissipation	5 kW



OPERATING CONDITIONS

Frequency	30 MHz
Output power	11 kW
DC anode voltage	6.5 kV
DC grid voltage	-550 V
Peak RF grid voltage	900 V
Feedback factor	15.0 %
DC anode current	2.20 A
DC grid current	525 mA
Grid resistance	1000 ohm
Anode input power	15 kW
Drive power	450 W
Anode dissipation	3.3 kW
Grid dissipation	160 W
Efficiency oscillator	75 %



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TRIODES CA5000

Mecanical:

Operating position Vertical
Weight 2.6 kg

Accessories:

Filaments connectors with leads
Grid connector with lead
Chimney D123
Packaging

Cooling:

Anode cooling forced air
Inlet air temperature, max 45 °C
Cooling air flow, min 1 m3/mi
Max temperature envelope 220 °C

