

START POWER

Power Electronics Technologies



RS3060CL FORCED-AIR COOLED TRIODE FOR HF GENERATORS

- Output power: 120 kW in CW mode
- Anode voltage: 14 kV
- Anode dissipation: 35 kW max.
- Frequency up to 100 MHz

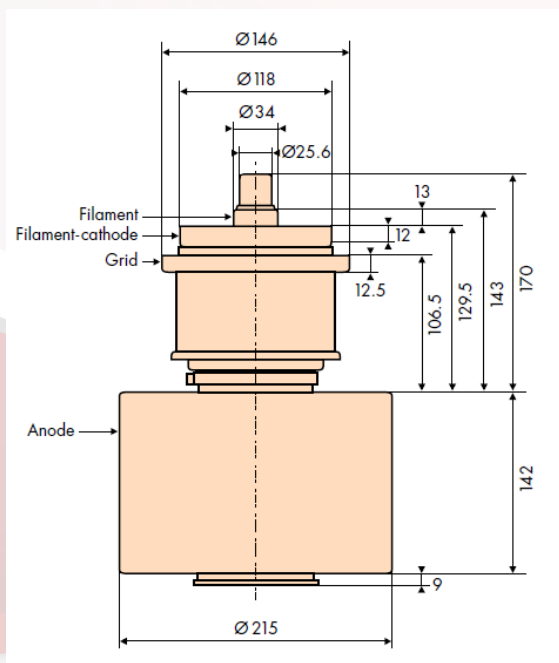
The **RS3060CL** is a HF power triode designed specifically for demanding industrial and scientific applications. This tube uses a coaxial design and metal-ceramic technology.

Engineered for high-power amplification and oscillation, this triode delivers exceptional performance and longevity.

Its optimized design ensures efficient operation and stable output, making it an ideal choice for critical systems requiring consistent and powerful signal generation.

This triode is designed to operate in **CW mode**. For operation in pulse mode, the parameters depend on each equipment characteristics, contact us for specific information.

OUTLINE DRAWING (IN MM)



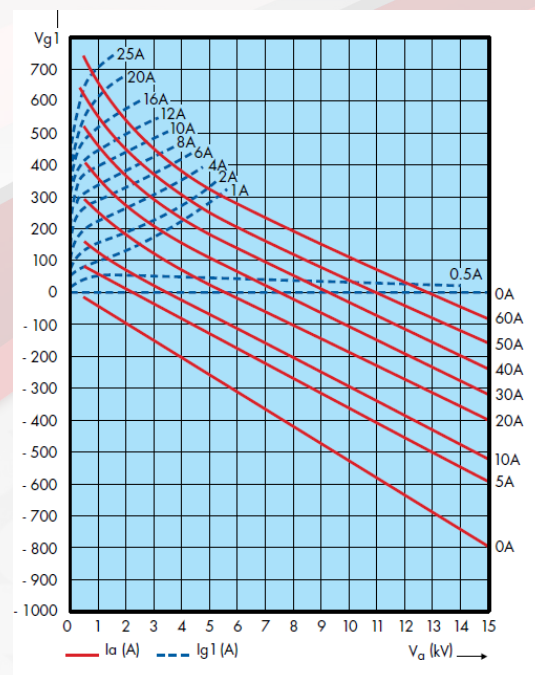
TECHNICAL SPECIFICATIONS

Cathode	thoriated tungsten	
Filament voltage	10	V
Filament current	190	A
Max. heater surge current	570	A
Amplification factor	22	
Capacitance:		
• grid-anode	46	pF
• grid-cathode	95	pF
• cathode-anode	2.6	pF

CLASS C, RF OSCILLATOR FOR INDUSTRIAL APPLICATIONS

Frequency	< 15	< 15	MHz
Anode voltage	13	12	kV
Anode current	12.1	10.7	A
Grid current, on load	1.75	1.75	A
Anode input power	157	128	kW
Anode output power	120	100	kW
Anode dissipation	35	26	kW
Control grid dissipation	750	730	W
Grid resistance	540	540	Ω
Feedback ratio	12.5	13.4	%
Oscillator efficiency	76	78	%

CONSTANT CURRENT CHARACTERISTICS



MAXIMUM RATINGS

Frequency	30	MHz
Anode voltage up to 15 MHz	14	kV
Anode voltage from 15 to 30 MHz	10	kV
Grid voltage	-1500	V
Grid current, at full load, CW	2.2	A
Grid current, at no load, CW	2.8	A
Cathode current CW	70	A
Anode dissipation from the anode side	30	kW
Anode dissipation from the electrode terminal side	35	kW
Grid dissipation up to 15 MHz	1.2	kW
Grid dissipation from 15 to 30 MHz	0.9	kW
Grid resistance	8	kΩ

MECHANICAL CHARACTERISTICS

Operating position	vertical, anode up or down
Weight	18 kg
Dimensions	see outline drawing

COOLING CHARACTERISTICS

Anode cooling	forced air
Cooling water flow and pressure gradiend	see cooling curves
Inlet air temperature	25 °C typ.
Temperature at any point on tube envelope	220 °C max.