

77 T 3026J replacement of RS 3026 CJ

Water-cooled triode for Industrial RF Heating



77 T 3026J Water-cooled triode for RF induction heating machines

- Output power: 32 kW
- Anode voltage: 12 kV
- Anode dissipation: 25 kW
- Frequency up to 120 MHz

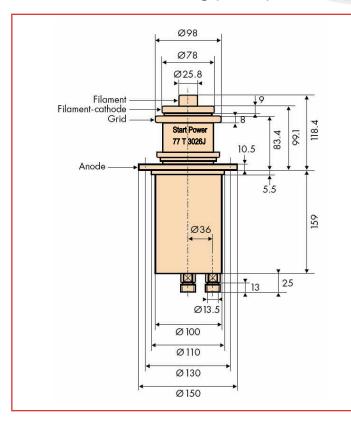
The 77T3026J is a replacement for RS 3026 CJ triode, intended for induction dielectric heating applications, delivers continuous RF power of 32 kW. It is especially well suited to industrial applications such as the heat treatment of metals.

This water-cooled triode uses a coaxial design and metalceramic technology. It may be operated in CW or pulse modes. For operation in pulse mode, the parameters depend on each equipment characteristics. Contact us for specific information.

The P.R.C. factory is fully committed to the long-term viability of tube technology, and to delivering high-tech products based on our proven expertise in complex processes.

77 T 3026J Industrial RF Heating

Outline drawing (in mm)



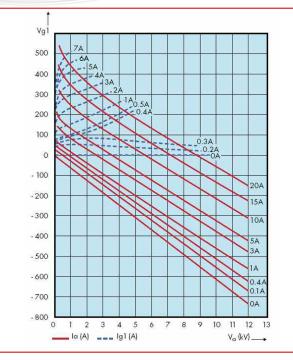
Technical specifications

Cathode Filament voltage Filament current Max. heater surge current Amplification factor	thoriated tungsten 7 115 450 20	
Capacitance • grid-anode • grid-cathode • cathode-anode	26 59 1.5	pF pF pF
Mechanical characteristics		
Operating position	vertical	

Cooling characteristics (industrial water)			
Dimensions	150 x 302	mm	
Weight	7	kg	

Max. water temperature at tube outlet	65	°C
Min. water pressure at tube inlet	6	bar
Max. T° at any point on the tube envelop	220	°C
Min. air flow on filament connections	0.7	m³/min

Constant current characteristics



Maximum ratings

· · · J-		
Frequency	120	MHz
Anode voltage		
• up to 40 MHz	12	kV
• from 40 to 80 MHz	11	kV
• from 80 to 120 MHz	9	kV
Grid voltage	-1500	V
Grid current, at full load up to 40 MHz	1.1	А
Grid current, off load up to 40 MHz	1.4	А
Cathode current CW	6	А
Anode dissipation	25	kW
Grid dissipation		
• up to 40 MHz	550	W
• from 40 to 80 MHz	450	W
• from 80 to 120 MHz	350	W
Grid resistance	15	kΩ

Class C, RF oscillator for industrial applications

Frequency	<40	<40	MHz
Anode voltage	10	8	kV
Anode current	4.1	4.2	А
Anode input power	41	33.6	kW
Anode output power	32	25	kW
Anode dissipation	8.2	7.8	kW
Grid current, on load	700	760	mA
Grid dissipation	240	260	W
Grid resistance	1.15	0.86	kΩ
Feedback ratio	13.5	15	%
Oscillator efficiency	78	74.5	%

