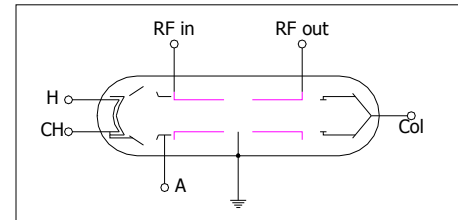


Features

Frequency range	2,6 to 3,4 GHz
RF CW output power *	30 W
Gain	33 dB

Description

The S401C is a helix, CW and conduction cooled traveling wave tube for use as a driver for high power traveling wave tubes or as an output tube in test equipment. Each tube delivers at least 25 W of RF power in S band without adjustment. The tube has a metal-ceramic vacuum envelope, depressed collector and periodic permanent magnet focusing structure.



H – heater; CH – cathode-heater;
A – anode Col – collector

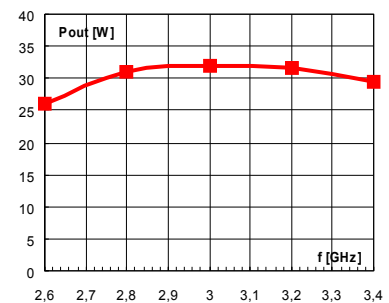
RF Performance Requirements

TECHNICAL DATA	MIN	MAX	UNITS
Frequency range	2,6	3,4	GHz
RF CW output power	25	-	W
Gain	33	-	dB
Load VSWR	max 2,5:1		

Electrical Requirements

TECHNICAL DATA	MIN	MAX	UNITS
Cathode voltage	-2,0	-2,5	kV
Collector voltage	70 % cathode voltage		
Anode voltage	-	-500	V
Cathode pulse current	-	120	mA
SWS current	-	10	mA
Heater voltage	6,5	9,0	V
Heater current	1,6	1,8	A
Heater warm-up time	3	-	min

Chart



Output power versus frequency

Notes

- The cathode and anode voltage is measured with respect to the ground.
- Collector voltage is measured with respect to the cathode.
- Optimum output power may occur after tuning of RF input power at operating frequency. Maximum value of input drive power has been used 3dB higher then nominal value.

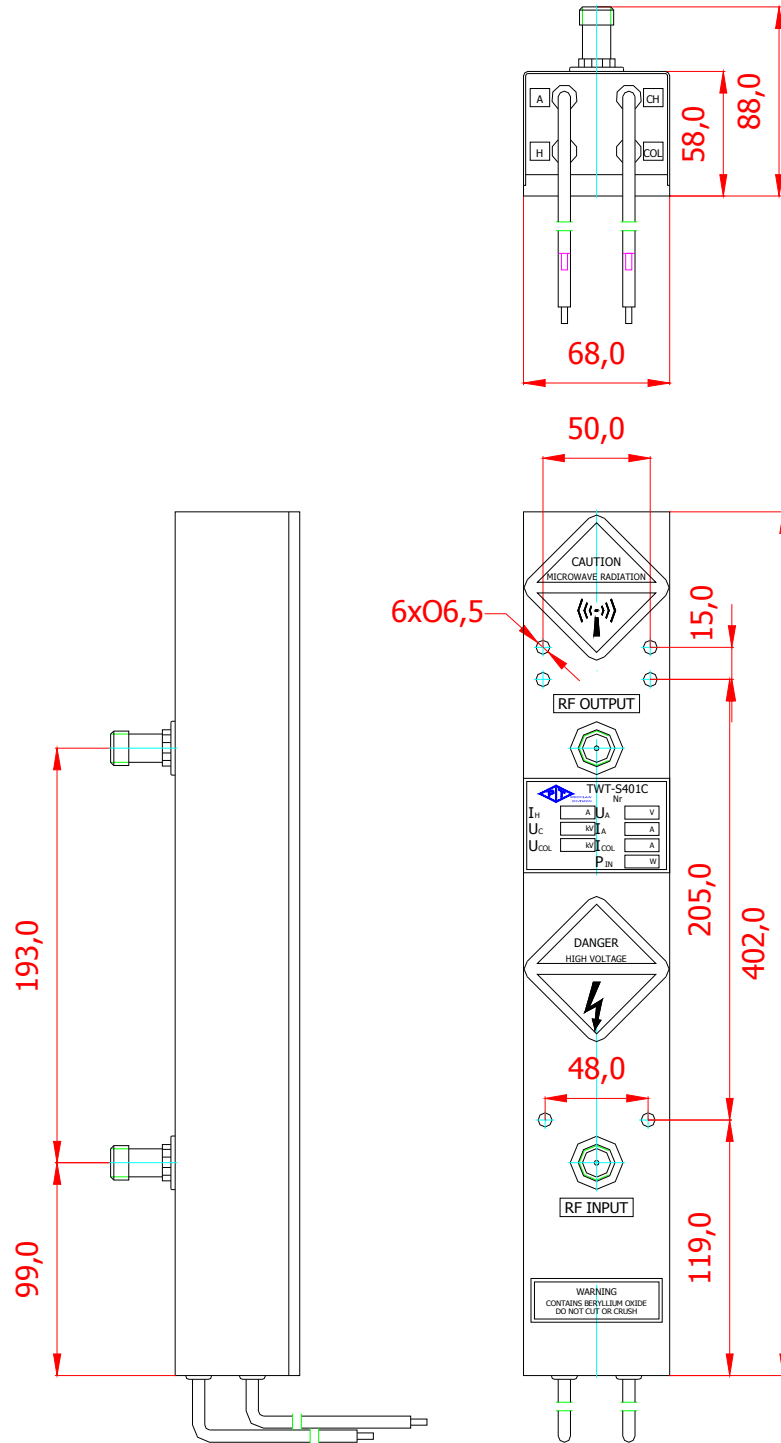
* max 1dB depress output power on the edges of frequency range - see chart

Mechanical Description

Dimensions	See Outline Drawing
Weight	3,2 kg
Cooling	Conduction
Mounting Position	Any
RF input connector	Type N
RF output connector	Type N

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The mechanical dimensions can be modified. Current detailed outline drawing are available on request.
All mechanical dimensions are in [mm].

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