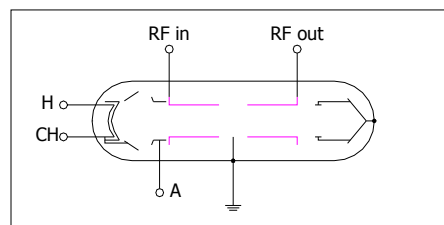


Features

Frequency range	2,6 to 3,4 GHz
RF peek output power	25 W
RF average output power	8 W
Gain	33 dB
Duty cycle	30 %

Description

The LO-401 is a helix, cathode-pulsed 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, and periodic permanent magnet focusing structure.



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

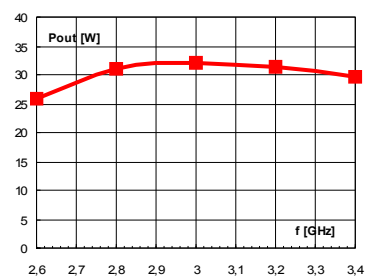
RF Performance Requirements

TECHNICAL DATA	MIN	MAX	UNITS
Frequency range	2,6	3,4	GHz
RF peek output power	25	-	W
RF average output power	8	-	W
Gain	33	-	dB
Load VSWR	max 3:1		

Electrical Requirements

TECHNICAL DATA	MIN	MAX	UNITS
Cathode voltage	-2,0	-2,4	kV
Cathode pulse current	-	120	mA
Duty cycle	-	30	%
Pulse width	-	100	μ s
Heater voltage	6,5	8,5	V
Heater current	1,6	1,8	A
Heater warm-up time	3	-	min

Chart



Output power versus frequency

Notes

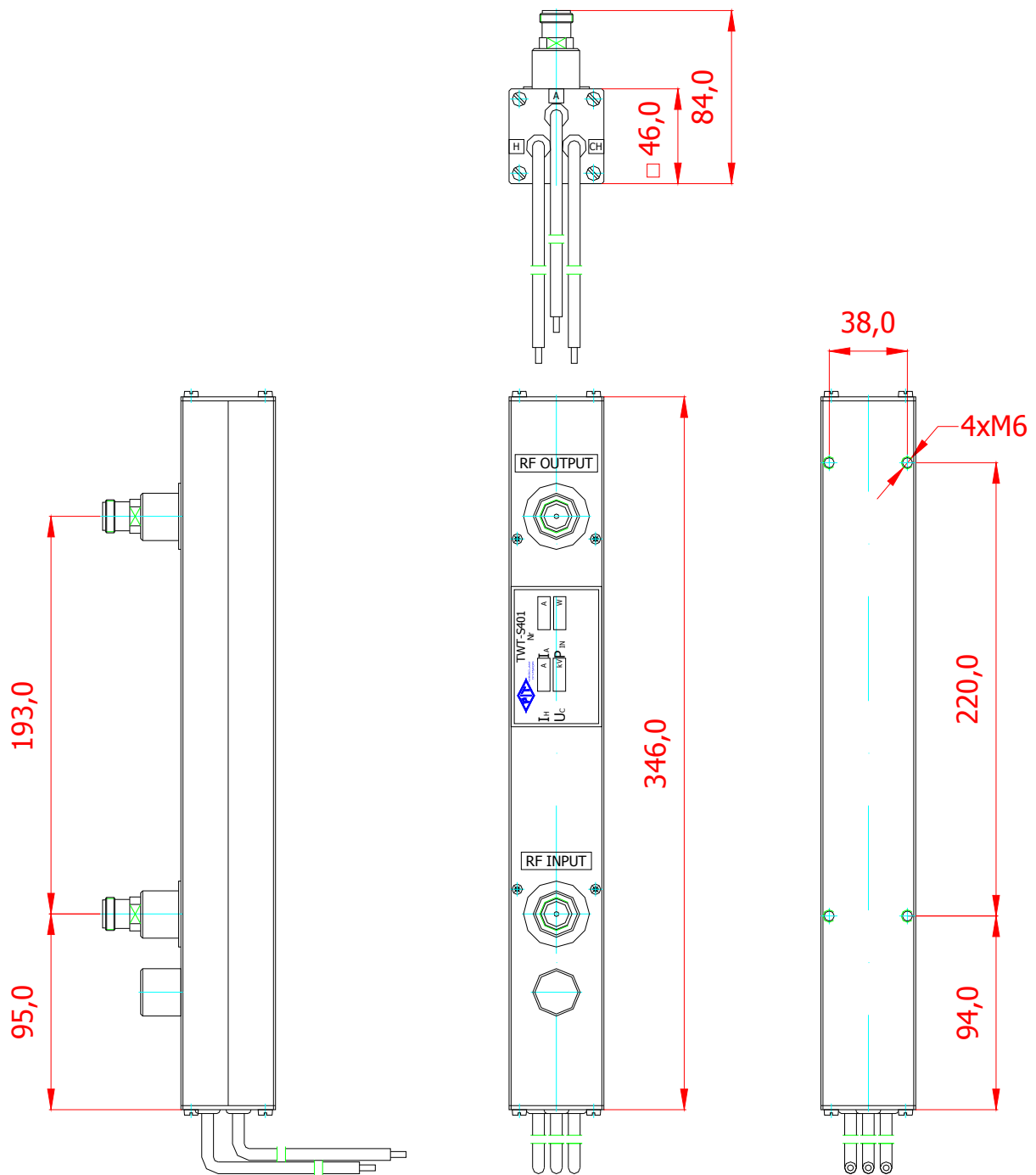
- The cathode voltage is measured with respect to the ground.
- Optimum output power may occur after slight tuning of cathode voltage and RF input power at operating frequency.

Mechanical Description

Dimensions	See Outline Drawing
Weight	2,3 kg
Cooling	Conduction
Mounting Position	Any
RF input connector	Type N
RF output connector	Type N
Environment temp	233-323 K

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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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