

Requirements Payload

Size and weight

- Weight must be less than 0,7 kg
- To be fitted in a tube with an inner diameter of 90mm.
- No parts to be put out the rocket, all parts must be within the outer diameter of 100mm.
- Module must be build as compact as possible.
- Module must have fittings as drawn in appendix 1.
- Module can be constructed as in appendix 2.

Power

- The module must have its own power supply that can be switched on and of from outside the rocket.
- The power supply must be able to feed the experiment for 90minutes pre-launch in the tower.
- The duration of the flight will be approximately 12 minutes.
- The recovery of the landed rocket may take as long as 100 hours.

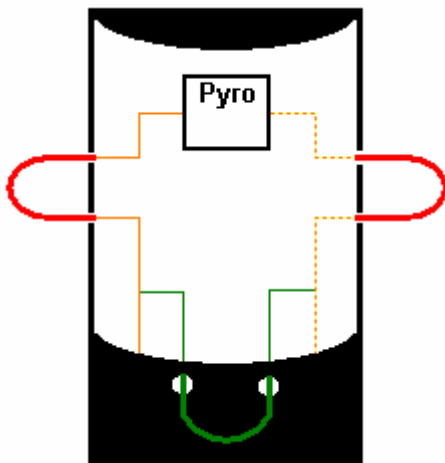
Experiment

- Experiment must be switched on and off from outside the rocket.
- No radio transmitter or HF-radiation are allowed.

Pyrotechnics

If pyrotechnical devices are used, then:

- Two independent inhibitors must be in place, witch include one safe/arm system that can be operated from outside the rocket.
- When the operation of this device is not restricted to the internal parts of the device, then the device must be able to be disarmed by the cutting of one of two wires as shown below.

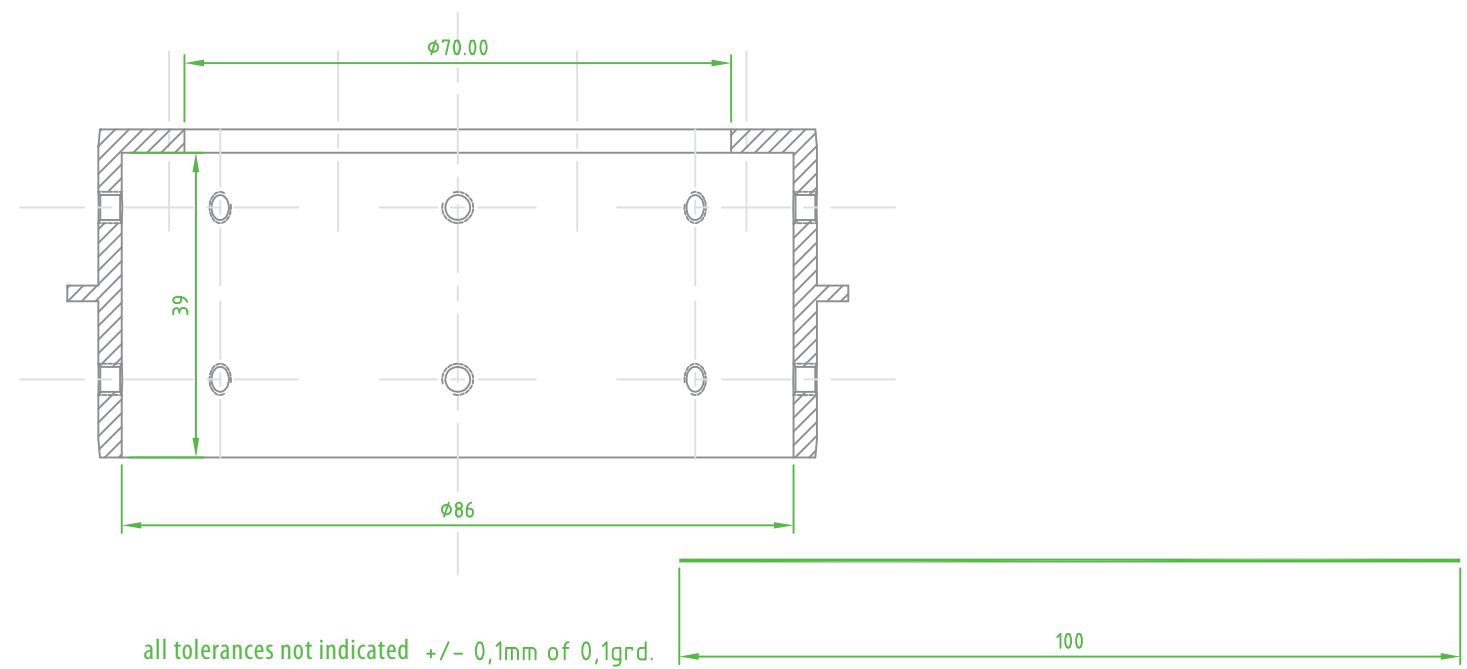
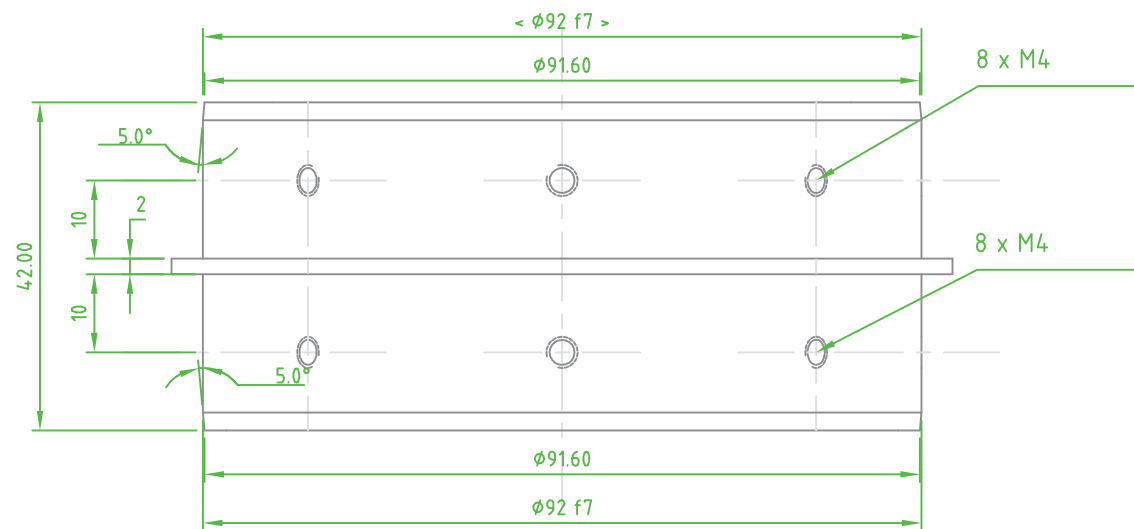
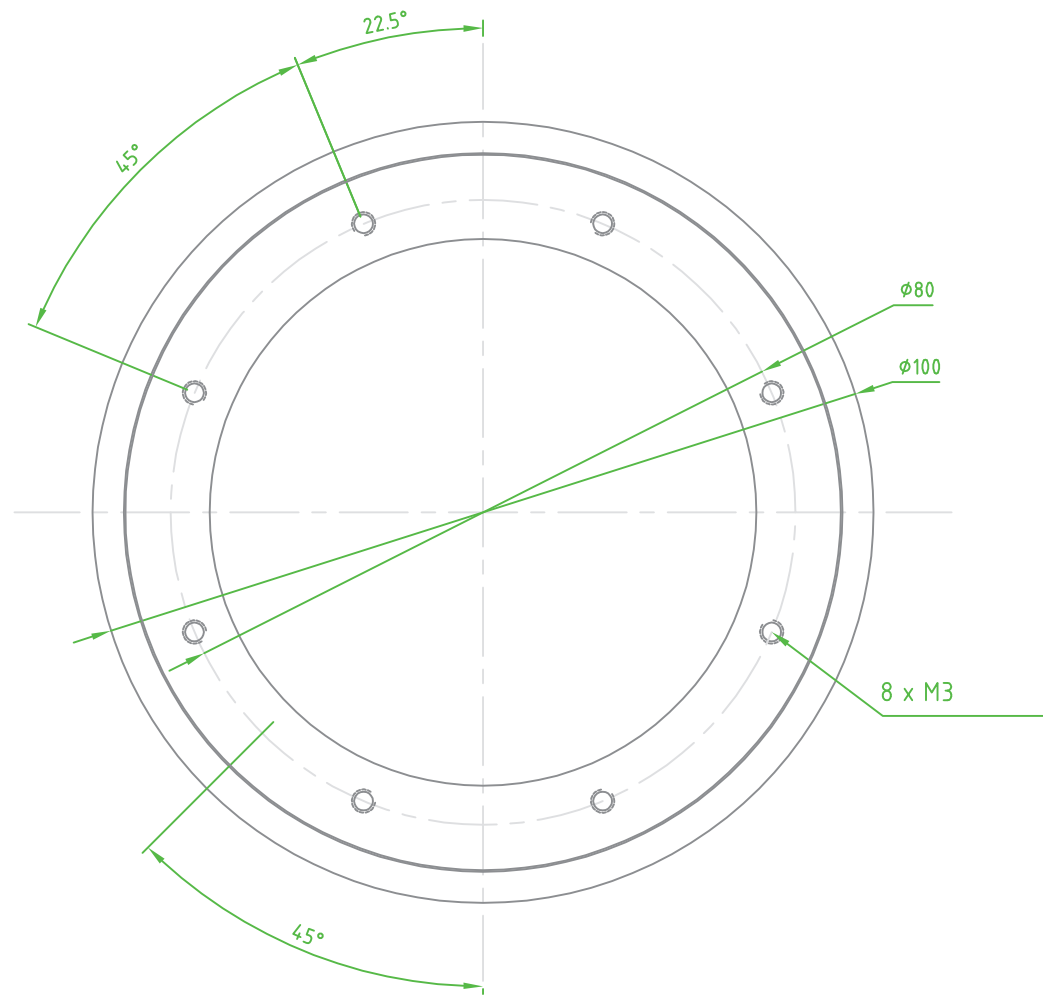



Environment

- Suited for a stay in the vacuum..
- Able to cope with accelerations from +20g to -5g

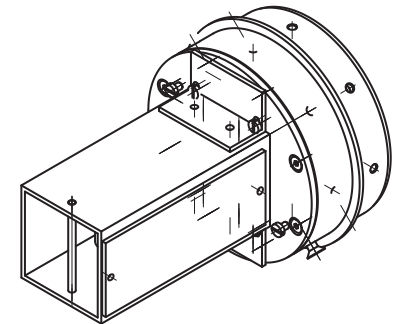
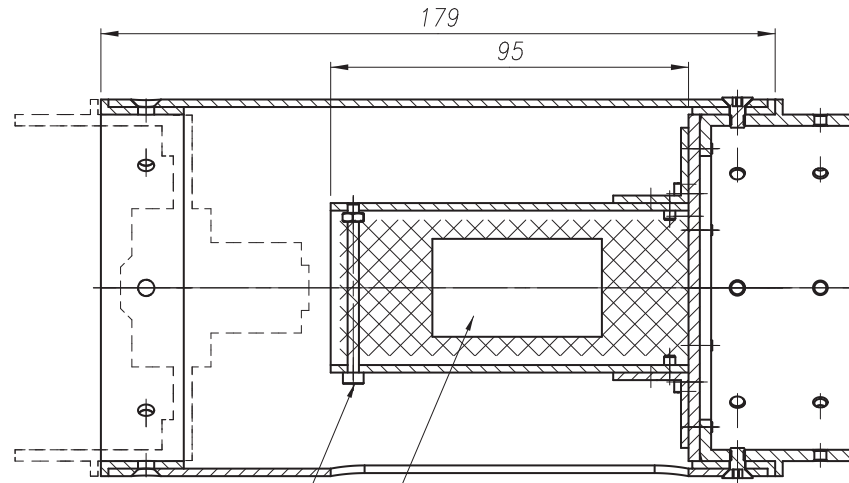
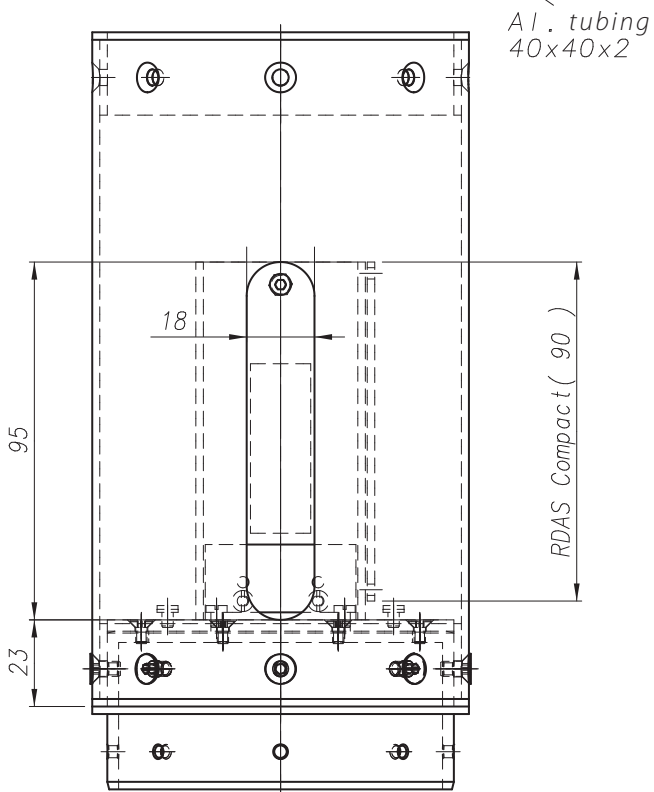
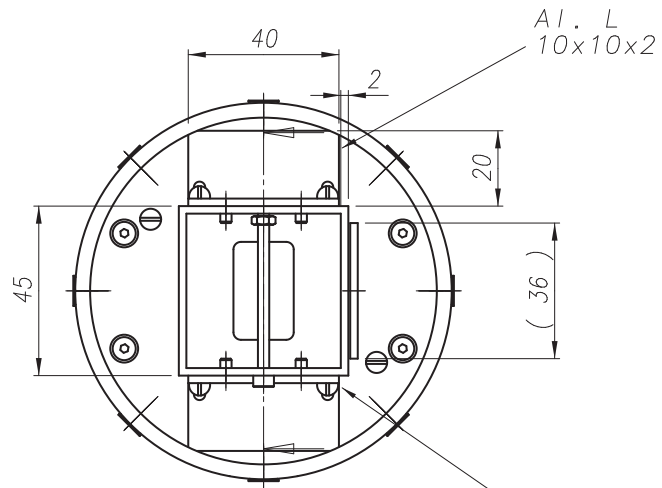
Qualification

- Module must be qualified with ground based testing.
- Module will be qualified with a testlaunch in the Netherlands.



Rev. : 01	Date : xx/xx/xxxx	Eng. : x. xxx xxxx	Rev. : 02	Date : xx/xx/xxxx	Eng. : x. xxx xxxx	Rev. : 03	Date : xx/xx/xxxx	Eng. : x. xxx xxxx
 Company : Vrije Universiteit Fac. der Bewegingswetenschappen Departm. : Elektronica Addr. : v/d. Boechorststraat 9 City : 1081 BT Amsterdam Countr. : Nederland						Project : H11-a		Name : Koppelring
						Checked By : xxxxxxxx	Scale : 1:1	Part No. : xx
						Remarks : ISO 2768-fh	Units : mm.	Number : xx
						Eng. : F. den Boer	Initial Date : 28/05/2004	Material : AL-50ST
						Page : 1	Of : 1	

This drawing may not be used for commercial purposes without written authorization.



ITEM	QTY	PARTNAME	MATERIAL	PARTNUMBER/REMARKS			
			AL 51ST				
Hx Elec. segment				Date	Name		
				DRN	09-01-2006	I. Cerjak	
				MOD			
				PDT	07-04-2006	I. Cerjak	
scale: 1:1.33			0	50	 Dim. in mm		
			General tolerances unless otherwise stated according to ISO-2768-mK-E	Geometrical tolerances unless otherwise stated according to ISO-8015-E	Roughness unless otherwise stated according to DIN 3142		
 www.nerorockets.org				Size	Partnumber:		
				A3	NERO-03-00		
				Sheet No: 1	Number of sheets: 1		