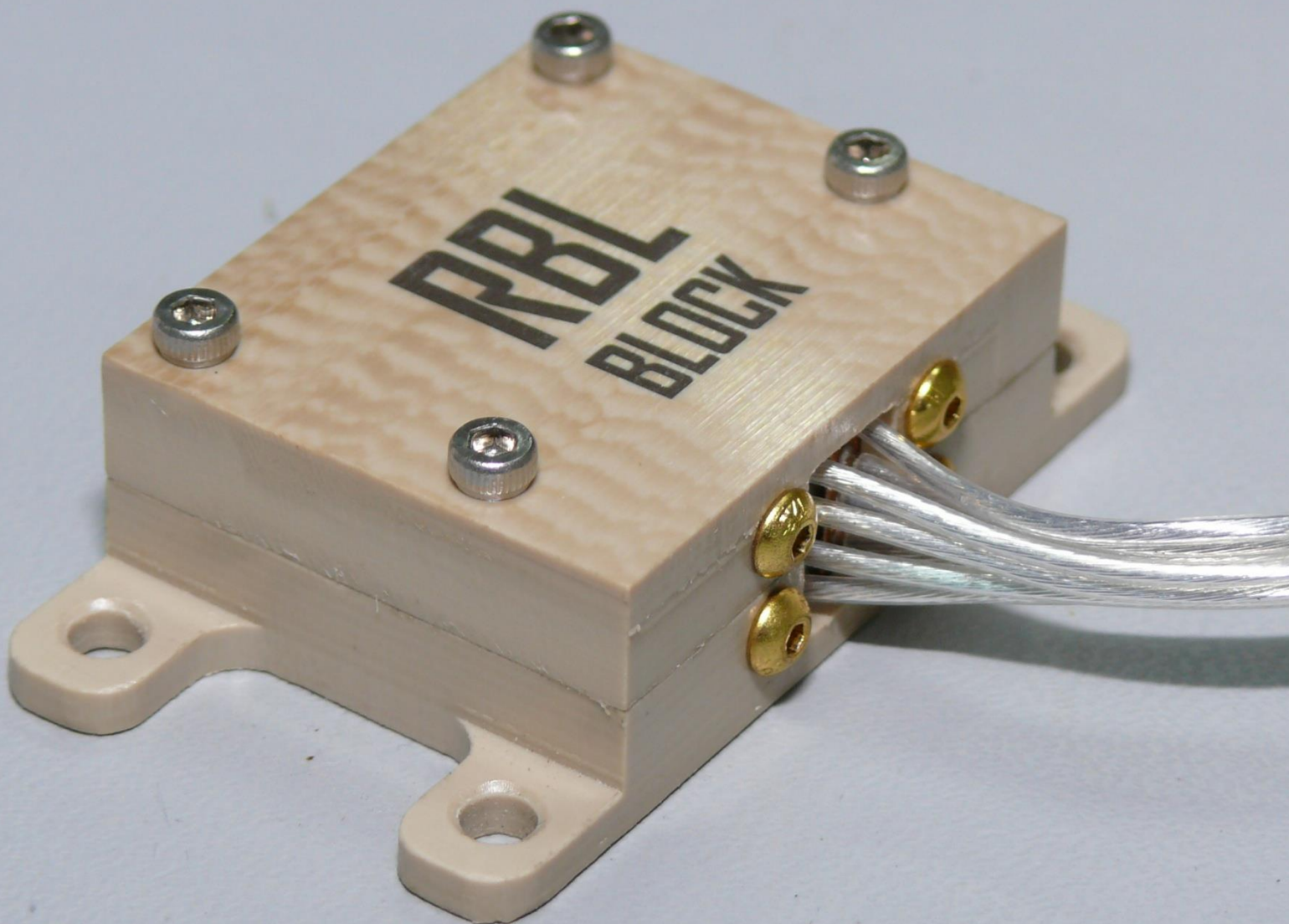




RBL 12U

(Remove Before Launch)

MICROSAT SIZED RBL FOR OVERENGINEERED APPLICATIONS



SUMMARY

The RBL 12U (Remove Before Launch) is a mechanically simple, minimalistic and very solid, CNC machined, sturdy and thick device with very few failure points. They are mechanically actuated by loaded compression springs and have contacts made of solid Beryllium Copper alloy 0.5mm thick for extreme redundancy. Contact between plates has an area of 115 mm² and a hard casing made of PEEK.

FEATURES

- Extremely simple and reliable design
- Beryllium Copper 0.5mm thick plates actuated by compression springs
- Very low part count
- Sturdy, thick and over-engineered design that works every time, all the time
- Very high electrical and thermal loads supported
- Mechanically minimalistic, compression spring operated
- Custom configurable choice of mechanical mating and screws
- Designed for CubeSat (<50kg) applications, missions and requirements.
- Manufactured according to NASA and ESA space standards and materials.
- Repetitive functional and performance tests provided with documentation.

PERFORMANCE AND PRODUCT PROPERTIES

- **Weight (w/o RBL key):** 34.5 grams
- **Conductive surface contact area:** 115 mm²
- **Dimensions (LxWxH):** 60.00mm x 33.00mm x 16.00mm
- **Interface Flatness:** +/- 0.01mm
- **Operating Temperature:** -180C to +250C
- **Power rating:**
 - 0V to 200V
 - 0A to 100A
- **Connector:** XT60

MATERIALS

- Only TML and CVCN < 1% materials used, NASA and ESA approved.
- Contact material: BeCu CNS 17200 Y1/2
- Casing: PEEK (customizable color, normally cream color)
- Compression spring: SS 316

TESTING

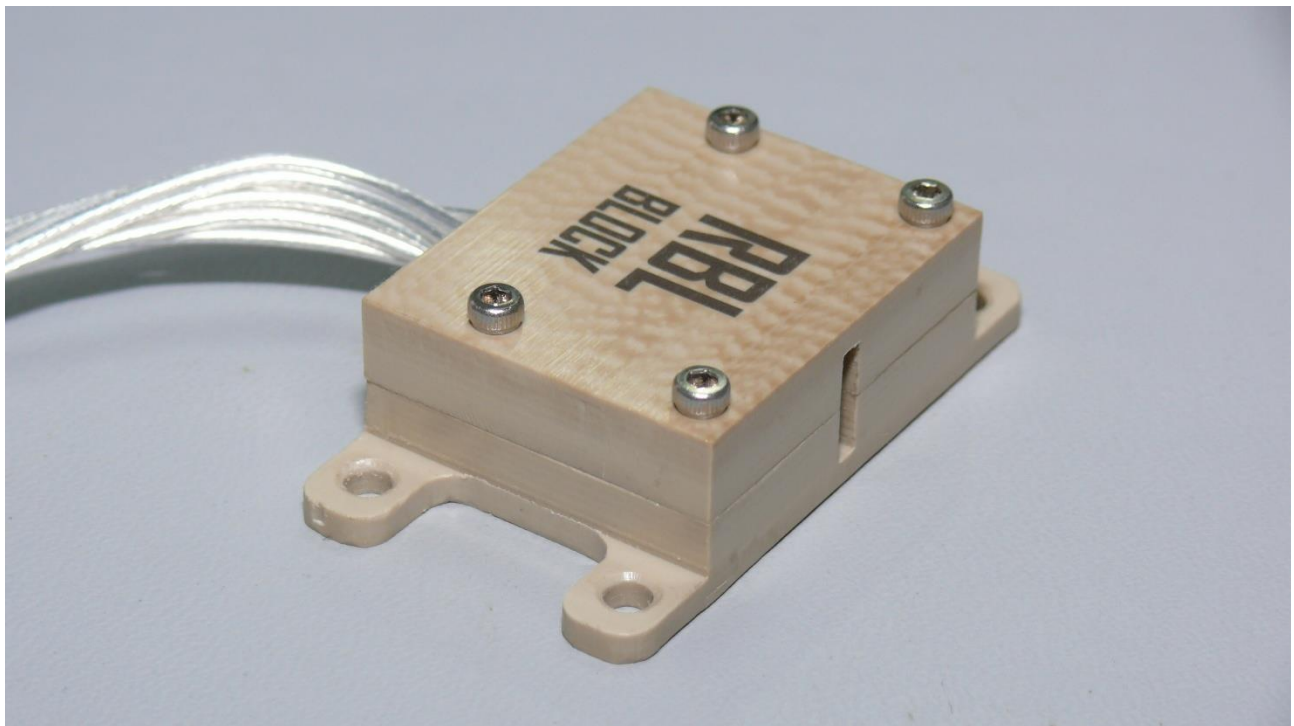
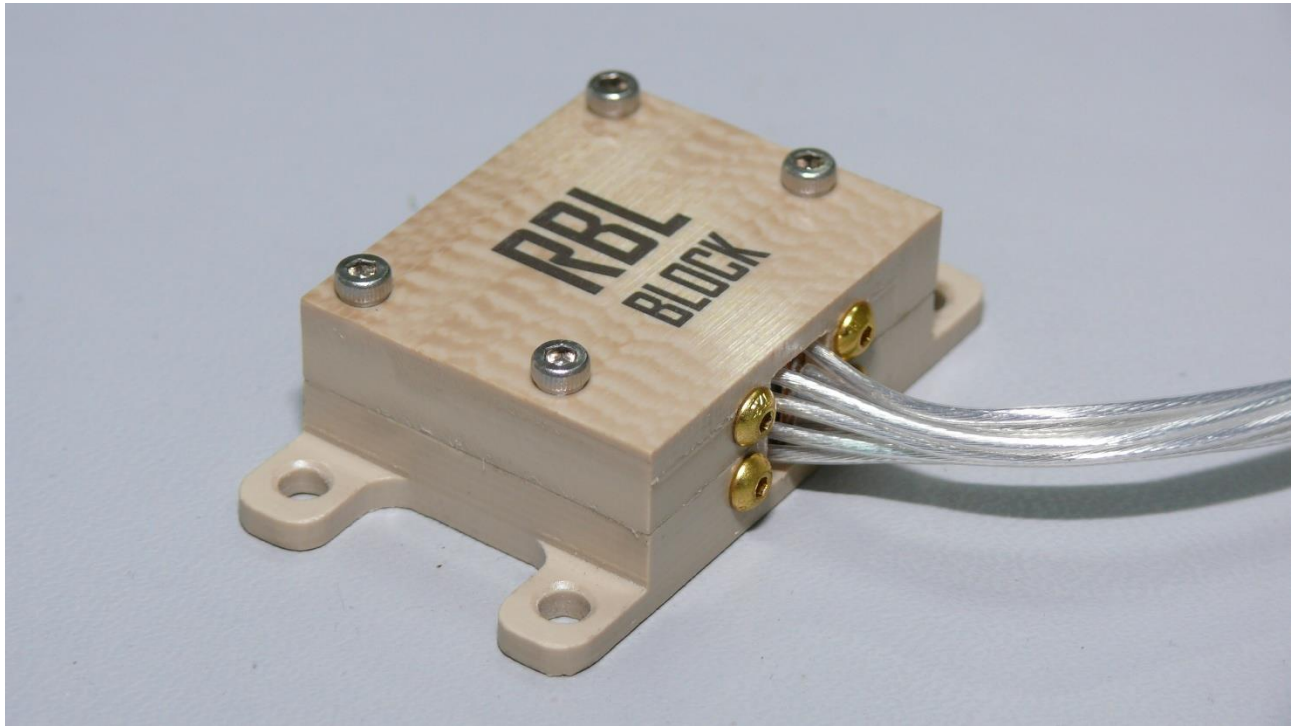
All products are provided with tests reports regarding:

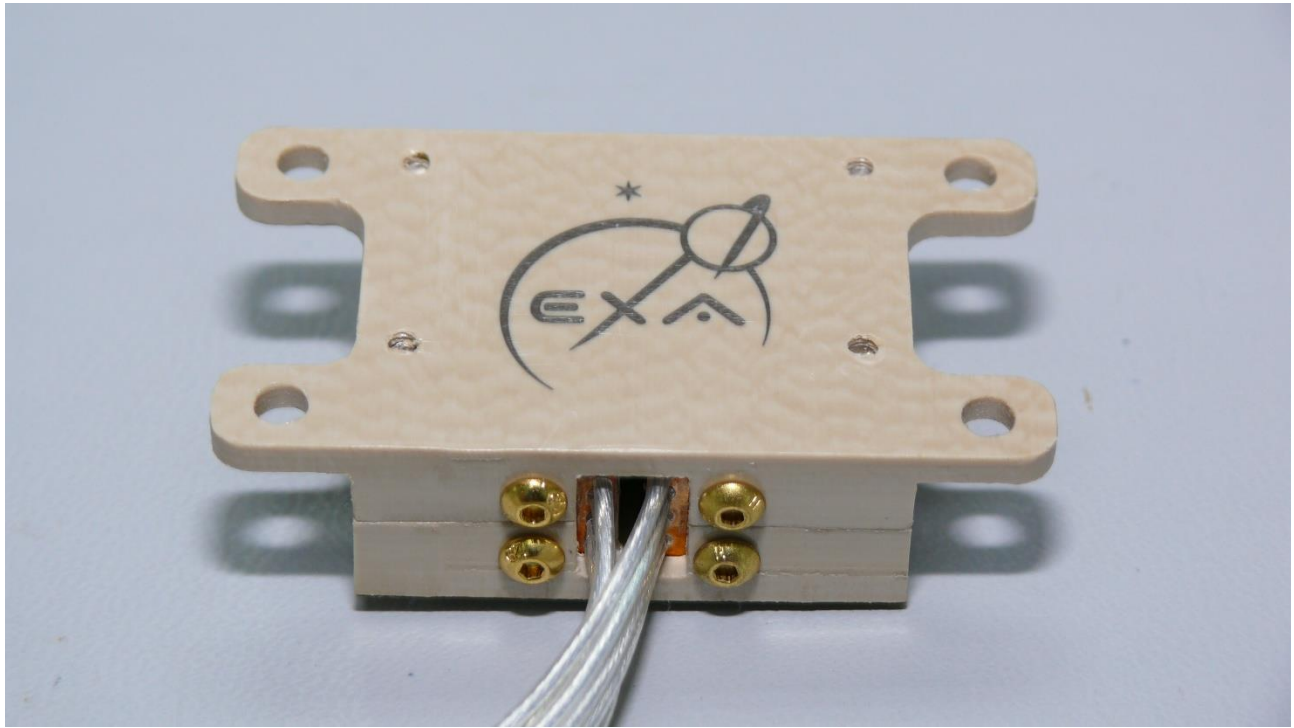
- Thermal Bake out (10E-5 mbar @ 50C for 72 hours)
- Full vibration test for Falcon 9, Electron, Soyuz, Dnepr and Long March 2D

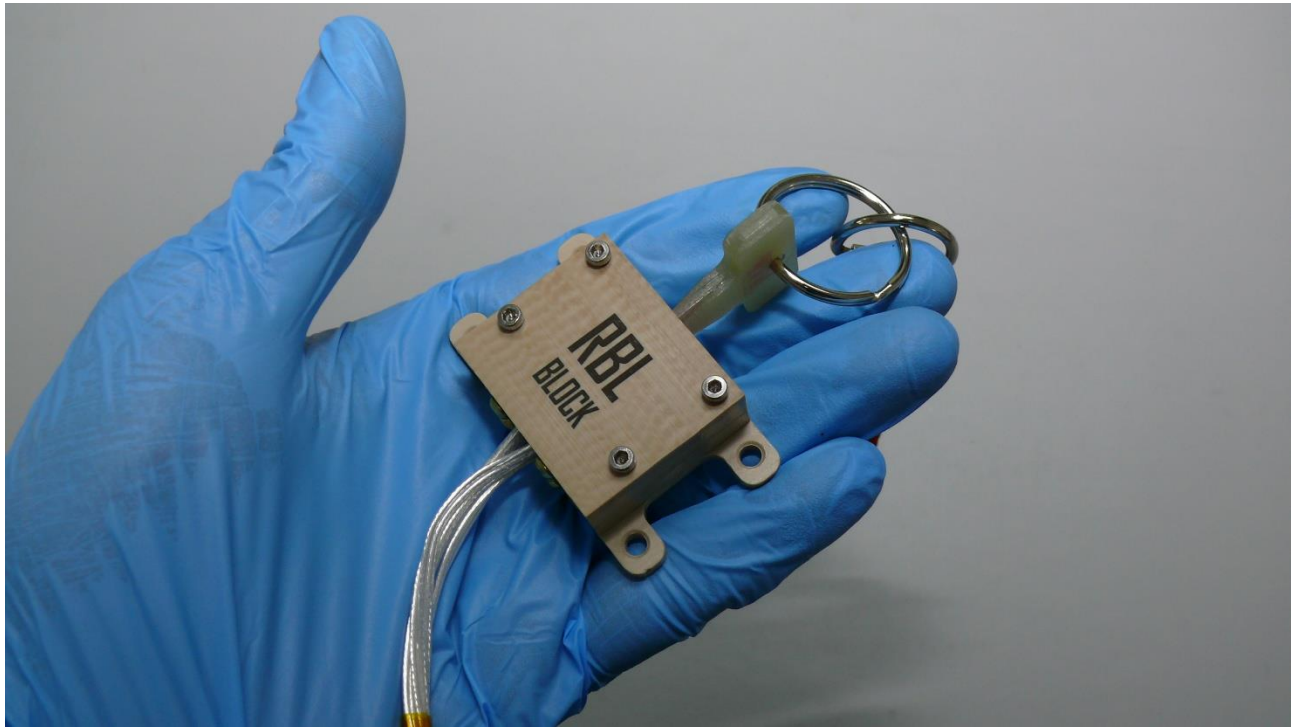
Test	QT	AT
Functional	✓	✓
Vibration		✓
Thermal Cycling		✓
Thermal Vacuum		✓
Repeatability (100 times)	✓	✓

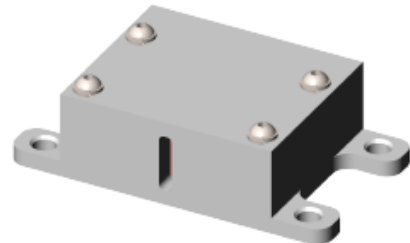
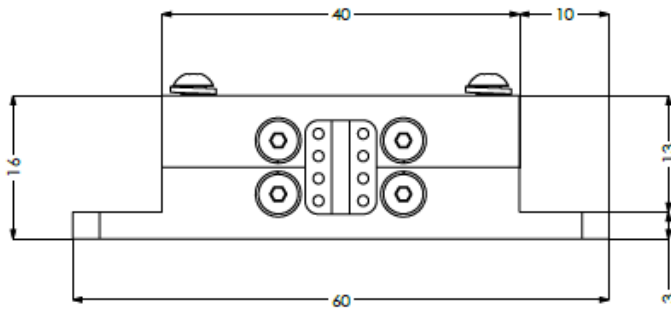
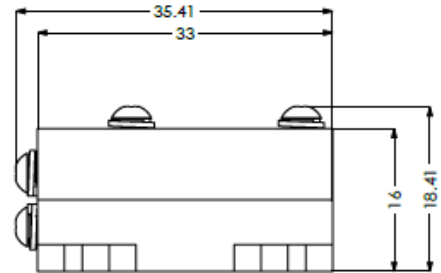
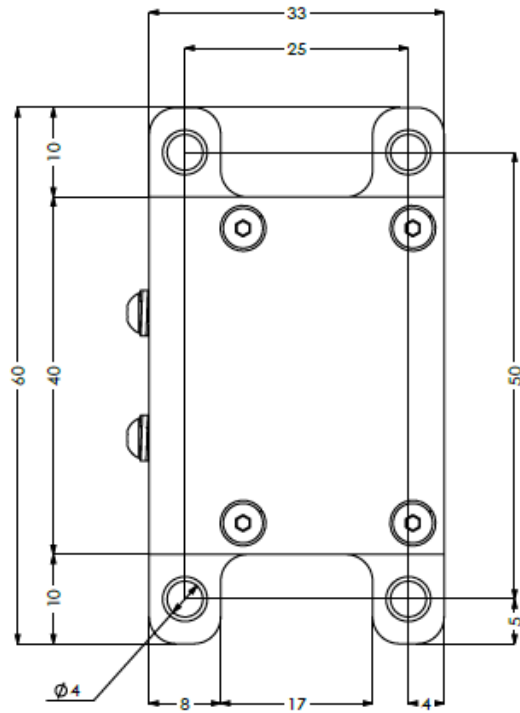
AVAILABILITY AND LEAD TIME

- 6 to 8 weeks









	NAME	SIGNATURE	DATE		TITLE: GENERAL DIMENSIONS	
DRAWN	JND			MATERIAL Casing: PEEK Contacts: BeCu	EXA RBL 12U	
CHK'D	RNB					
APP'VD	RNB					
MFG	-					
Q.A	JND			WEIGHT: 50.67g	SCALE 3:2	SHEET 1 OF 3