

SSTD Incoming Inspection Report

Spacecraft/Project **HERSCHEL / SPIRE**

Document Number **SPIRE-RAL-REP- 002641**

Issue **1**

Sub System **L0 Straps**

Date **28-Apr-06**

Model **PFM**

INCOMING INSPECTION REPORT

FROM	
MSSL	
Mullard Space Science Lab, Surrey	

TO	
Project	
Rutherford Appleton Laboratory	
Space Science and Technology Department	
Chilton	
DIDCOT	
OXON	
OX11 0QX	

Applicable sections	
Containers	Yes
External Visual Inspection	Yes
External Connector	No
Documentation	Yes
Verification of Interfaccs	No
Extra Comments Sheets	Yes

Drawings / Documents Attached	
See Photos Attached	

INSPECTION CONDUCTED BY

WITNESS BY

NAME
Eric Clark (PA)

DATE
28/04/2006

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CONTAINER INSPECTION

TRANSPORT CONTAINERS EXTERNAL CONDITION	REMARKS	Status
Mechanical damage to container fasteners, locks, clips or handling provisions	The L0 Straps were delivered by Hand from MSSL loose in a large cardboard box. Each Strap is mounted on a support frame and sealed in a black bag. No padding or packing was used other than some bubble wrap fitted loosely over the top. No Environmental monitors were fitted.	See Remarks
Security / Locking Fitted		See Remarks
Markings for destination and description		See Remarks
Warning labels relating to handling lifting and stacking limits		See Remarks
Any additional Comments		See Remarks

TRANSPORT CONTAINERS INTERNAL CONDITION	REMARKS	Status
Check Mounting fixtures fitted internal packaging	SEE ABOVE	See Remarks
Internal padding / packaging required		See Remarks
Mounting provisions secure		See Remarks
Any additional Comments		See Remarks

ENVIORNMENTAL MONITORS					
<u>Temp Monitors</u>		<u>Humidity Monitors</u>		<u>Shock Sensors Triggerd Information</u>	
Fitted:	<input type="text" value="No"/>	Fitted:	<input type="text" value="No"/>	5g	10g
Condition:	<input type="text" value="N/A"/>	Condition:	<input type="text" value="N/A"/>	15g	25g
				50g	
				X Axis	
				Y Axis	
				Z Axis	

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INSTRUMENT VISUAL INSPECTION

CHECK LIST	REMARKS	RESULTS
Contents against shipping list	No Shipping list supplied but items delivered are detailed in the EIDP	None
Instrument label		None
Note status of external contamination	No contamination visible however the copper surfaces had dark patches in places.	See Remarks
Degradation of paintwork or Coating?	No Coating applied to items just bare metal.	See Remarks
Fasteners correctly locked?		N/A
Check protective covers are correctly labelled and fitted?		N/A
Additional Comments	The Dark patches mentioned above are normal oxidation of the copper.	See Remarks

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INSPECTION OF ALL CONNECTORS

CHECK LIST	REMARKS (LIST CONNECTOR NUMBERS)	RESULTS
Pin Alignment	Not Applicable No Connectors fitted to Straps	N/A
Damaged Sockets		N/A
Internal Debris		N/A
Connector Covers fitted		N/A
Connector Savers Fitted		N/A
EMC Covers Fitted		N/A
RED Tag Item / Green Tag Items fitted		N/A
Additional Comments		

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DOCUMENTATION CHECK LIST

Check	REMARKS	RESULTS
End Item Data Pack		Yes
Transportaion Documents	Delivered hy Hand	No
Packing un- Packing instructions		No
Additional Comments		None

Verification of Interfaces

Mechanical interface: dimensions specified in the interface control documents such as mass, flatness of surfaces, location of fixing holes and overall dimensions should be measured accurately and recorded. Record Test Report Number, or confirm that measurement result is included in delivery documentation, (EIDP).

INSPECTION / TEST REPORT NUMBER **CHECKED** N/A for this inspection

Electrical interfaces: verifying the location and types of connectors against interface control document is normally carried as part of mechanical verification, confirm this has been done. Functional testing: final functional test report number should be noted.

INSPECTION / TEST REPORT NUMBER **CHECKED** N/A for this inspection

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EXTRA COMMENT SHEET

The Delivery consists of three support frames with the following straps mounted on them.

- Evaporator Strap** Visual inspection only no electrical measurements were made.
- Pump Strap** Visual inspection only no electrical measurements were made.
- Spectrometer Strap** Visual inspection only no electrical measurements were made.

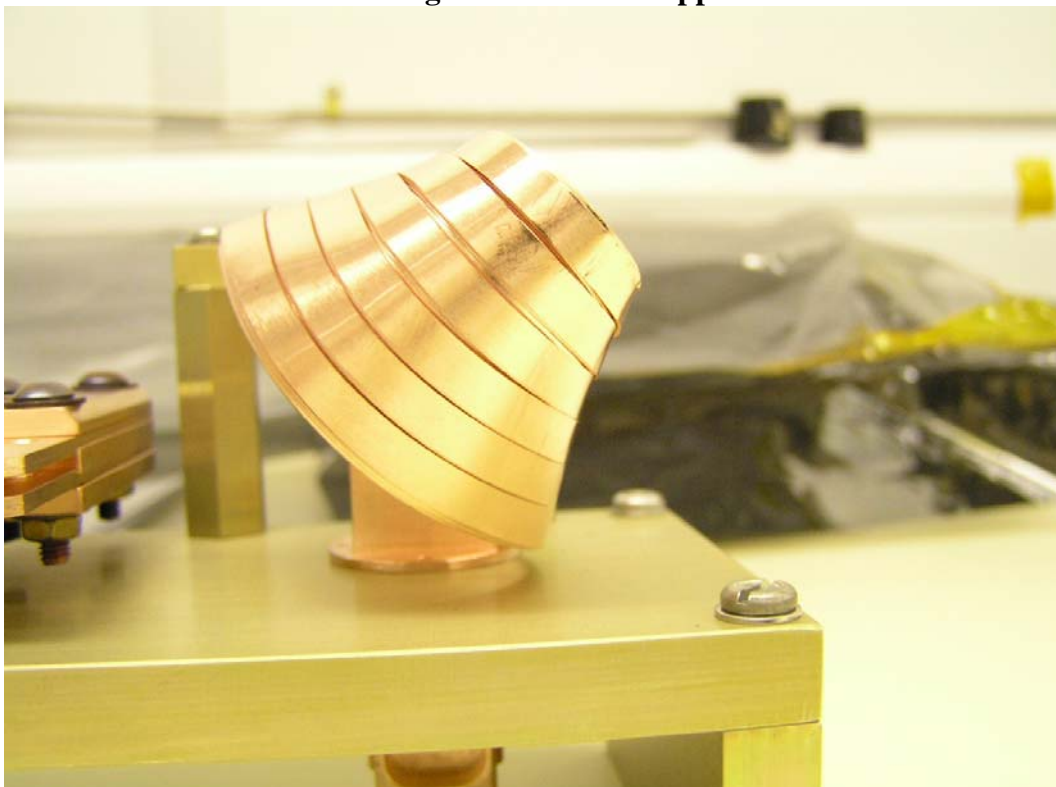
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Evaporator Strap

As received in bag from MSSL

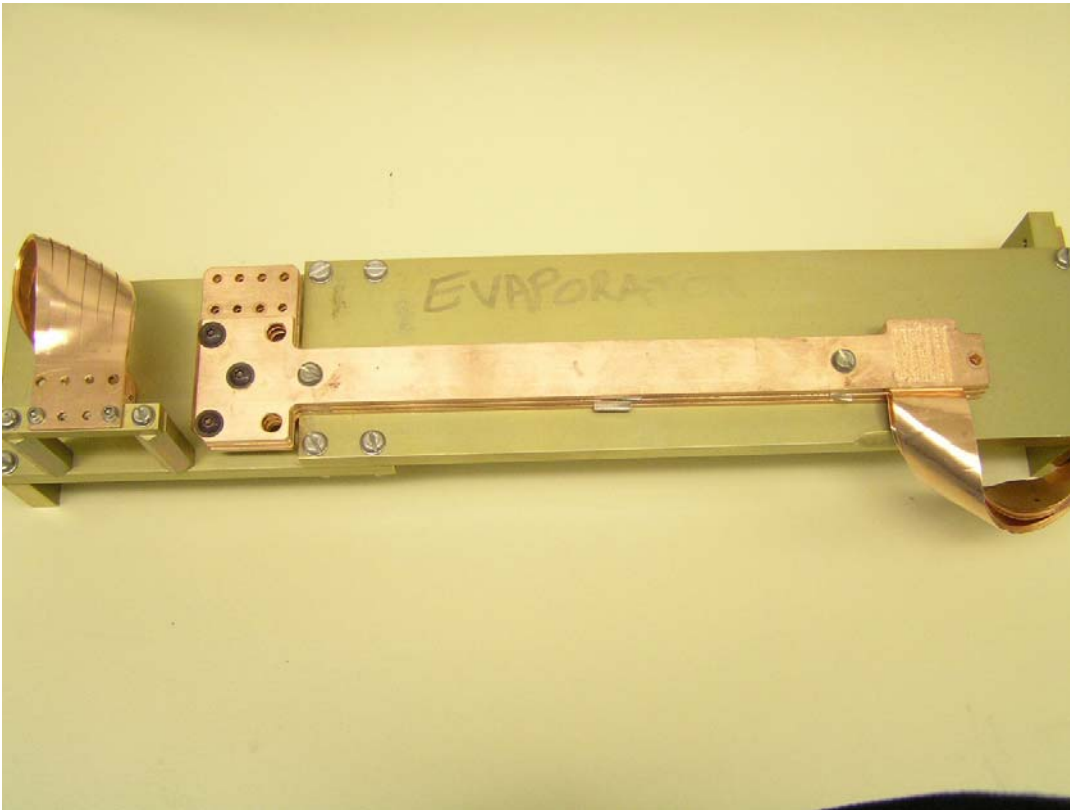


Showing dark mark on copper



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View of Strap removed from Bag showing slight discolorations



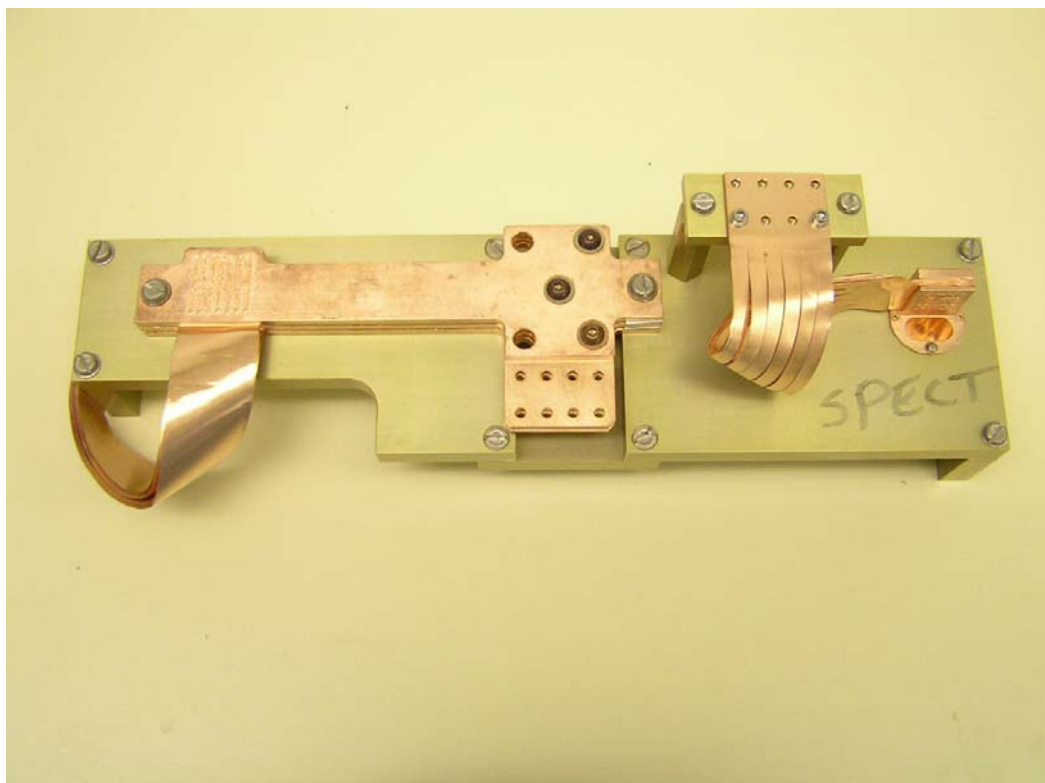
SPIRE-RAL-REP-002641 PFM L0 STRAPS
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Spectrometer STRAP

As received from MSSL

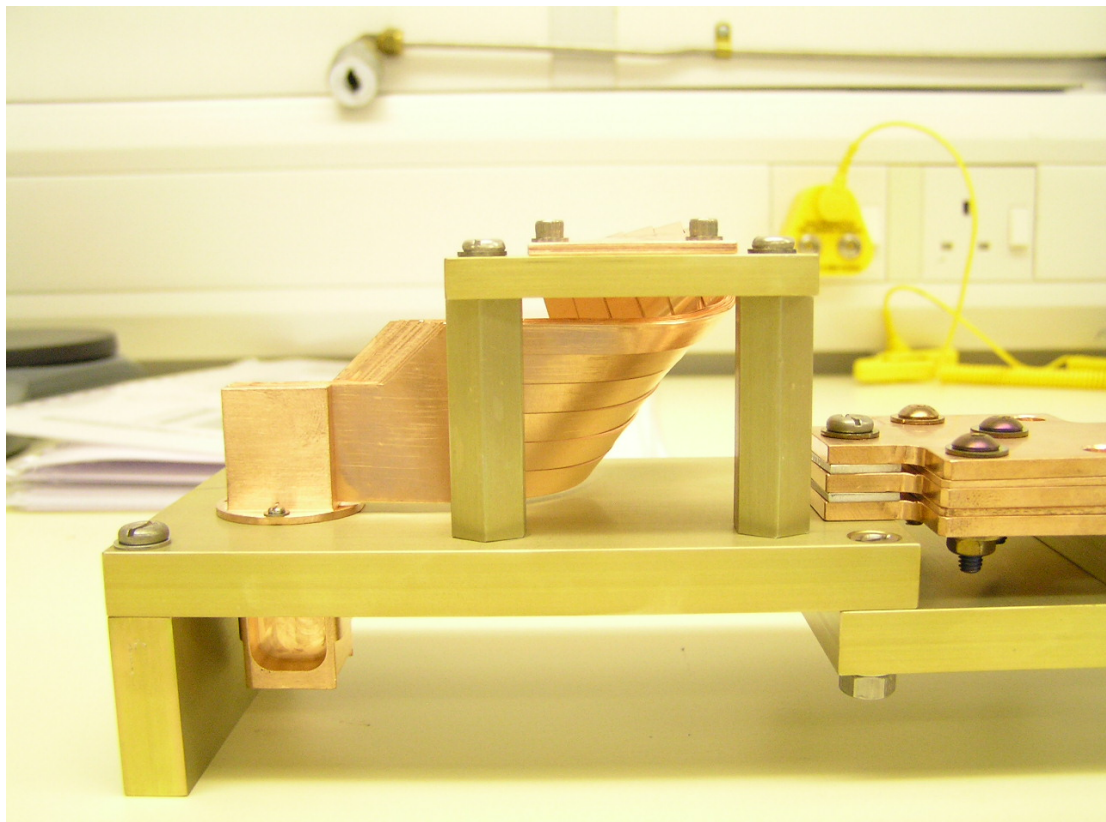
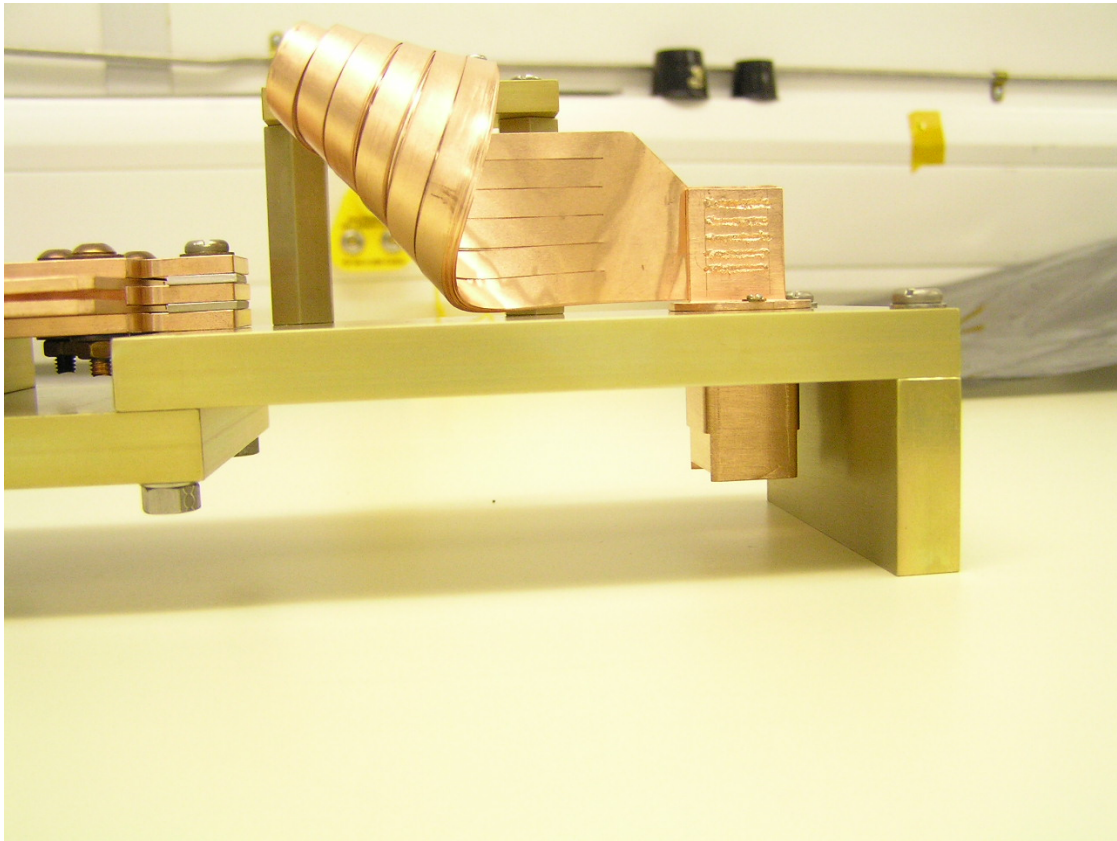


Removed from Bag showing slight discoloration



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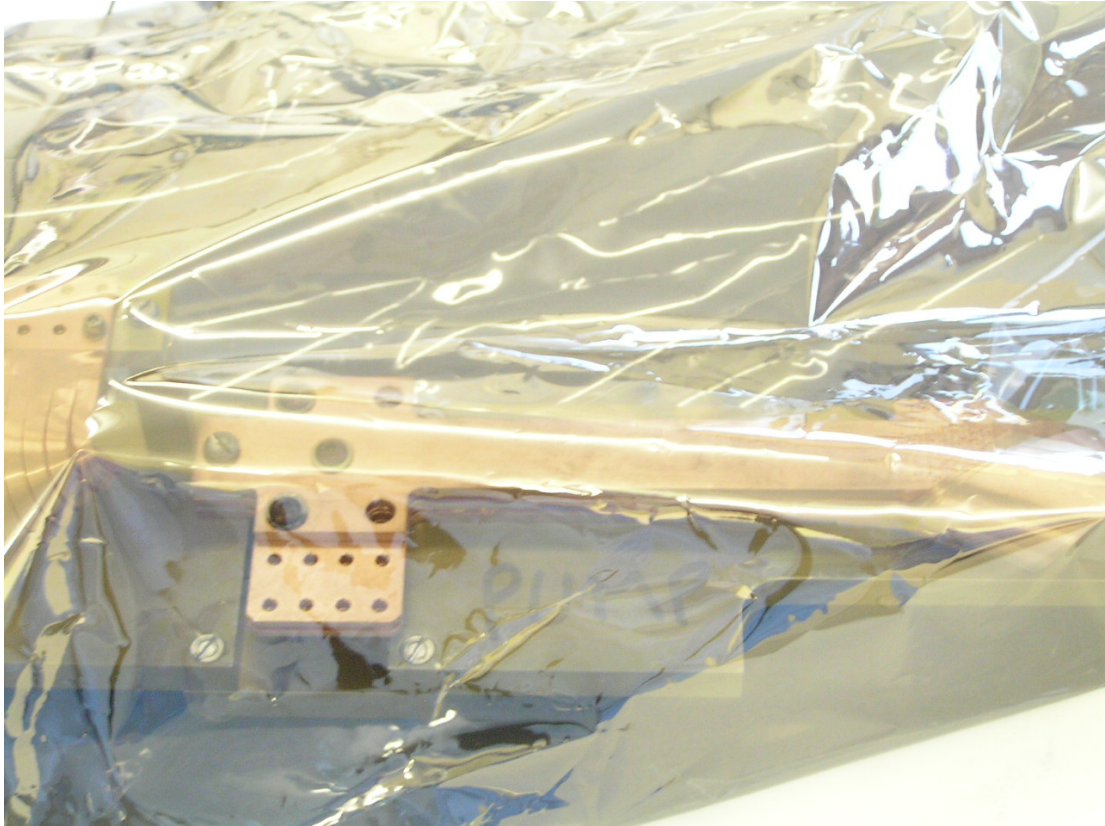
Viewed from both sides



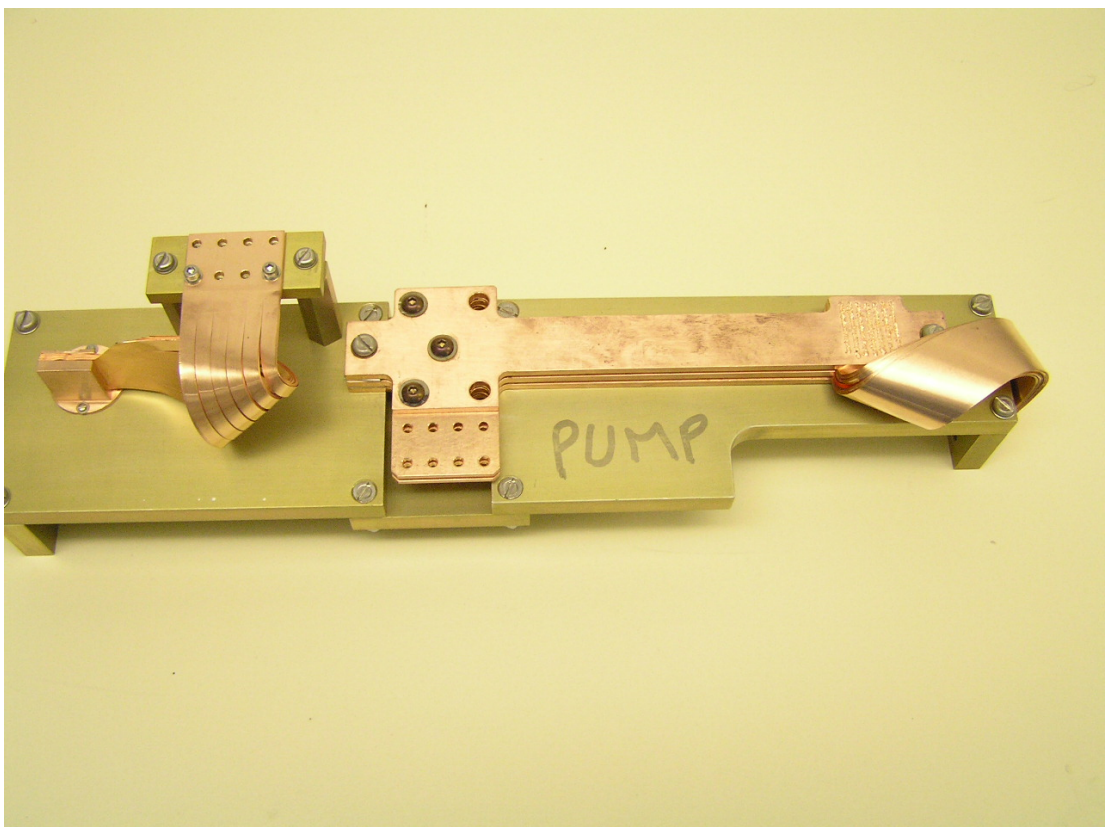
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PUMP Strap

As received from MSSL

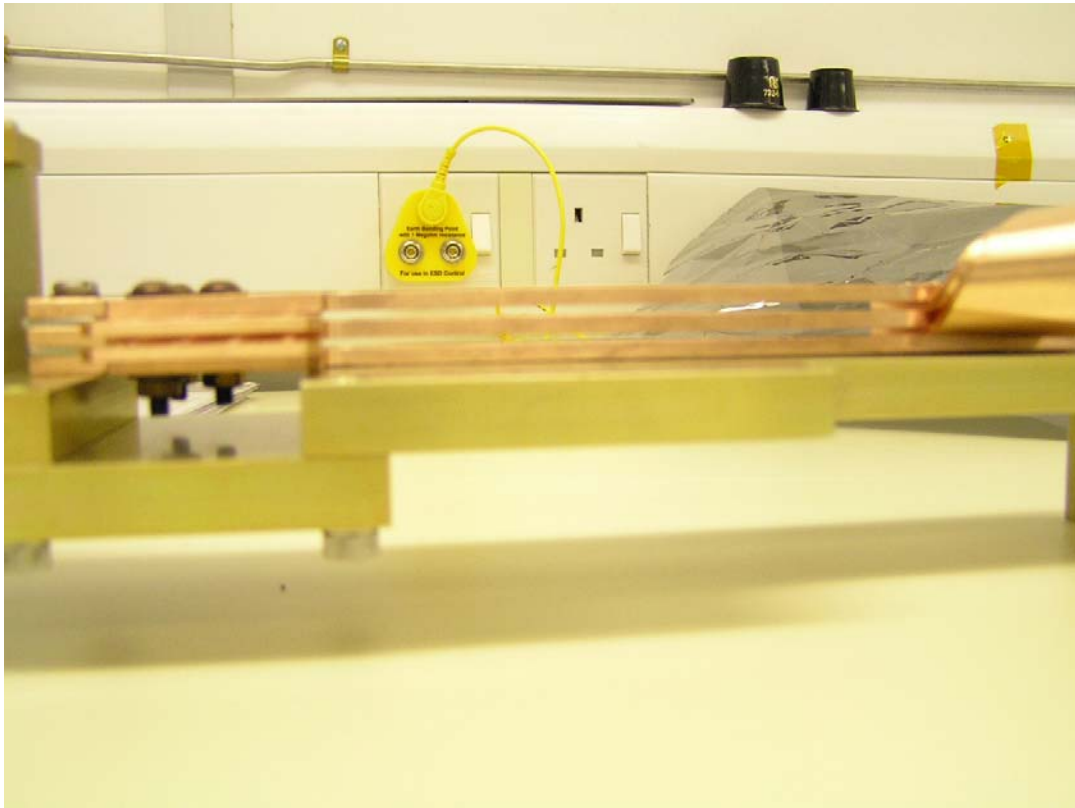


Removed from Bag

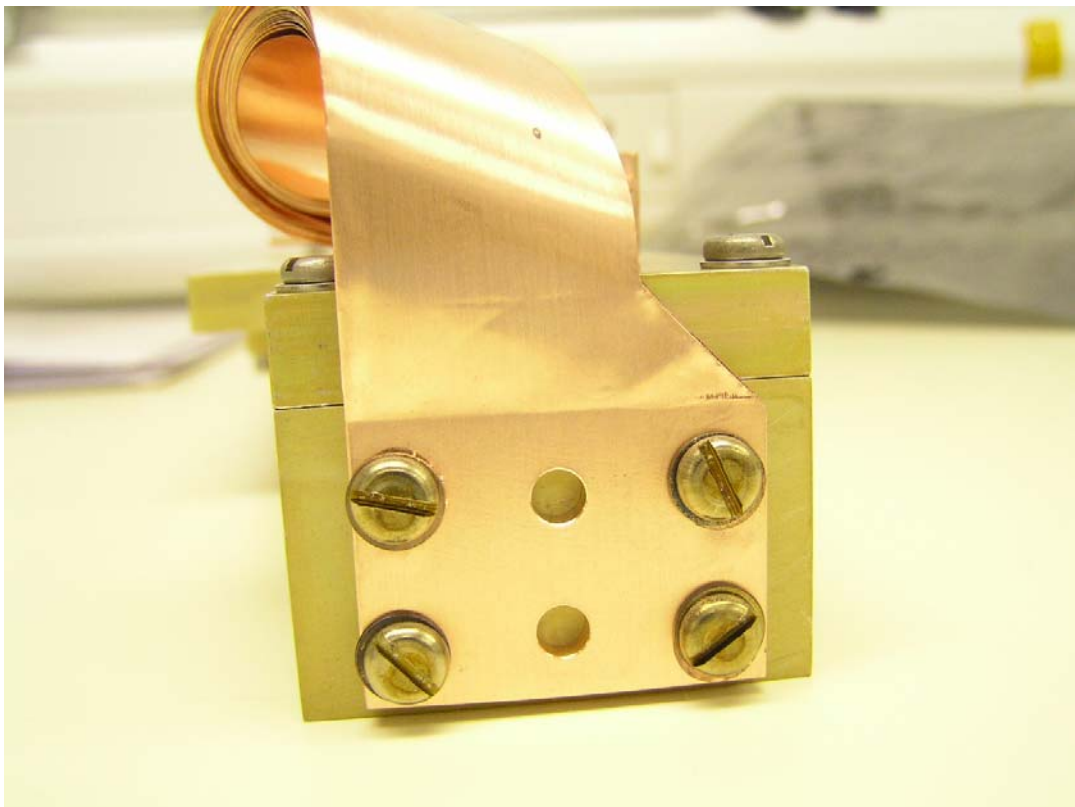


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Side View



End View



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Side Views of Small strap

