SPIRE-RAL-DWG-001409

Herschel/SPIRE

MULLARD SPACE SCIENCE LABORATORY UNIVERSITY COLLEGE LONDON Author: C BROCKLEY-BLATT

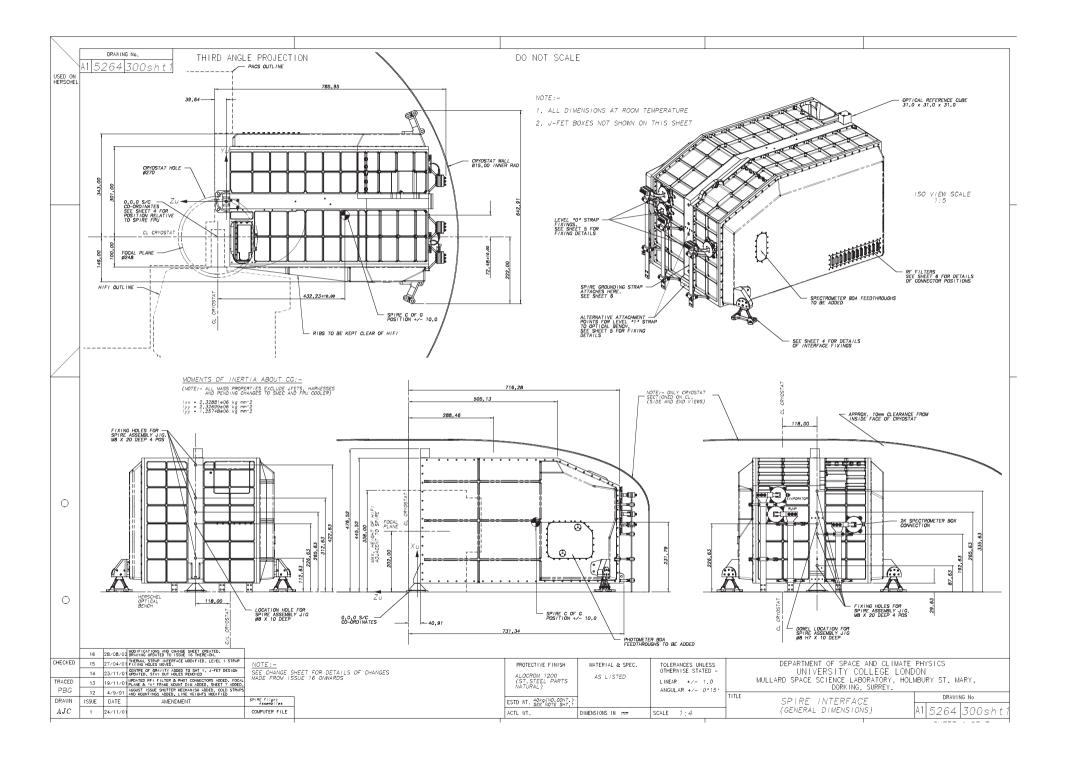
SPIRE – STRUCTURE INTERFACE DRAWING ISSUE 16 AND MODIFICATION SHEET ISSUE 1.0

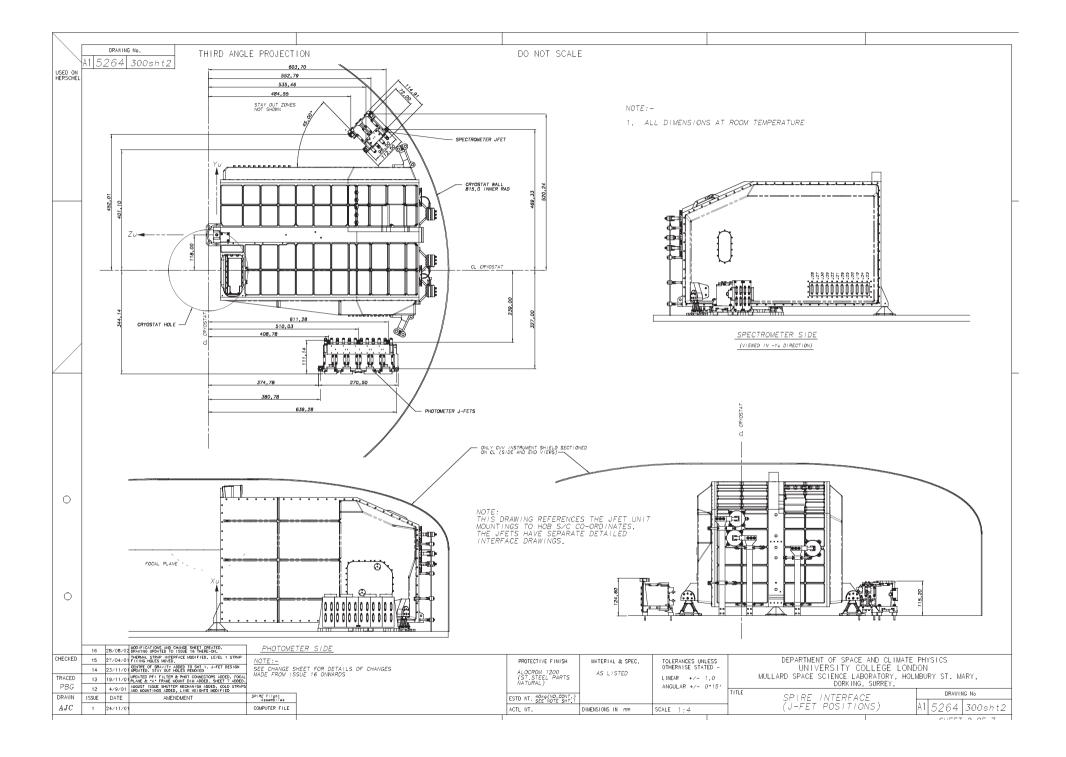
Document Number: MSSL/SPIRE/SP005 29 August 2002

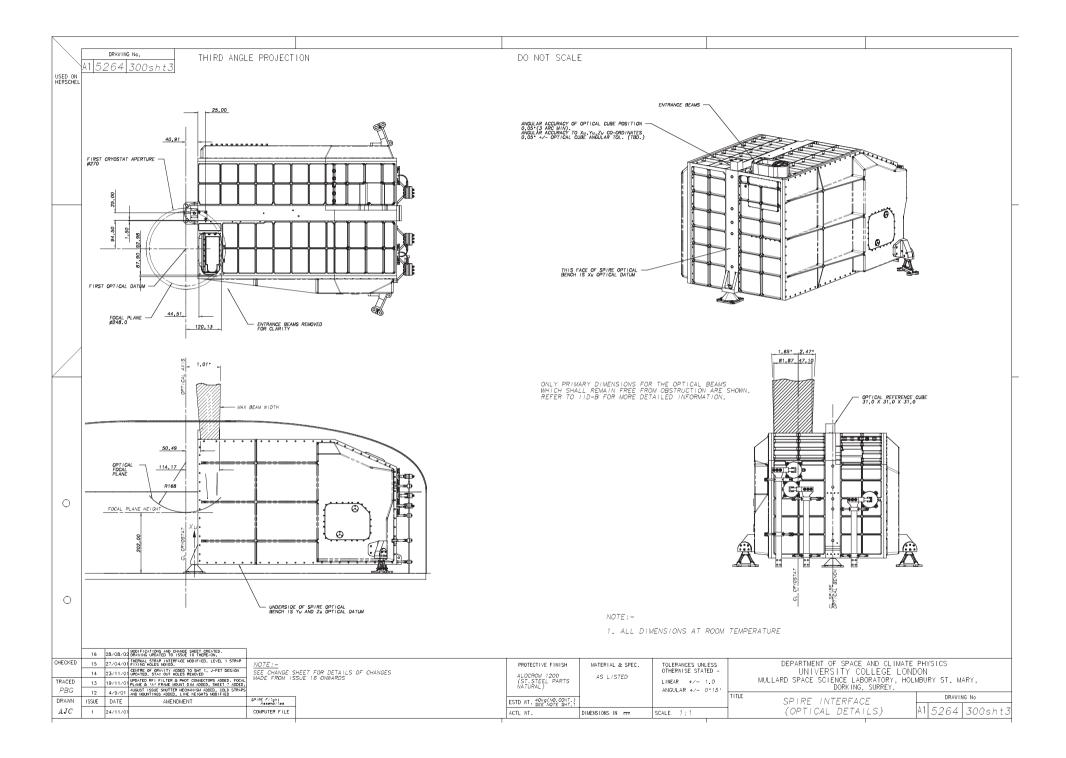
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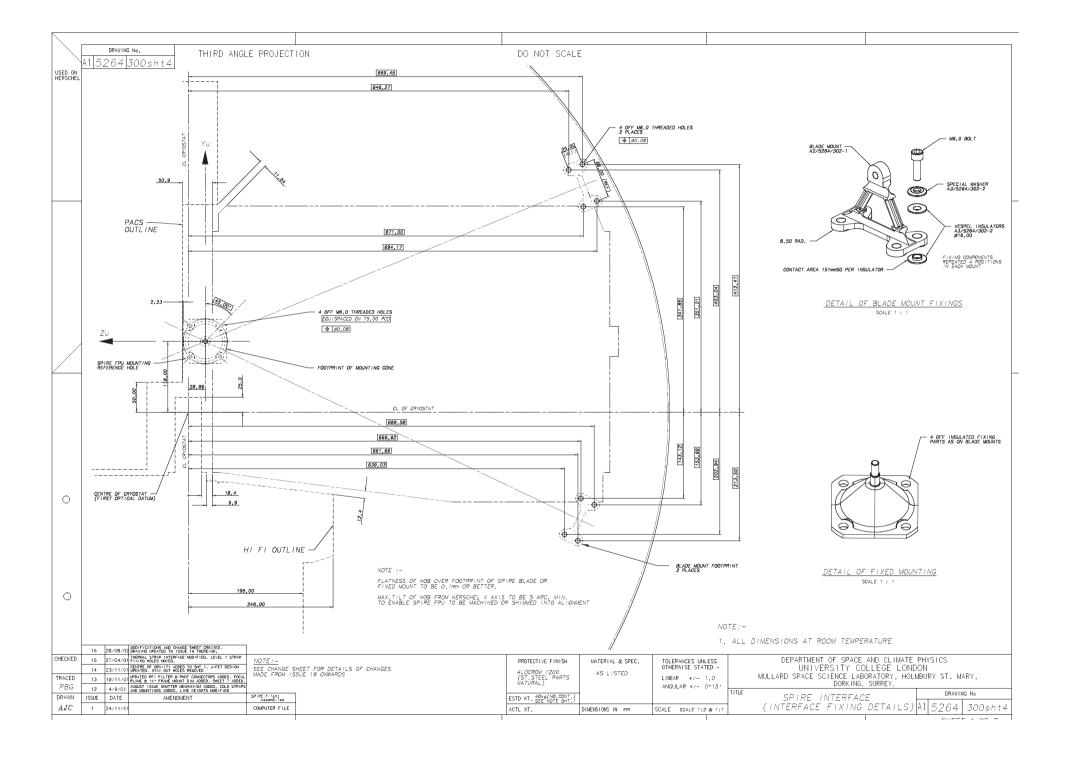
ISSUE 16....**PRE-ISSUE ONLY**

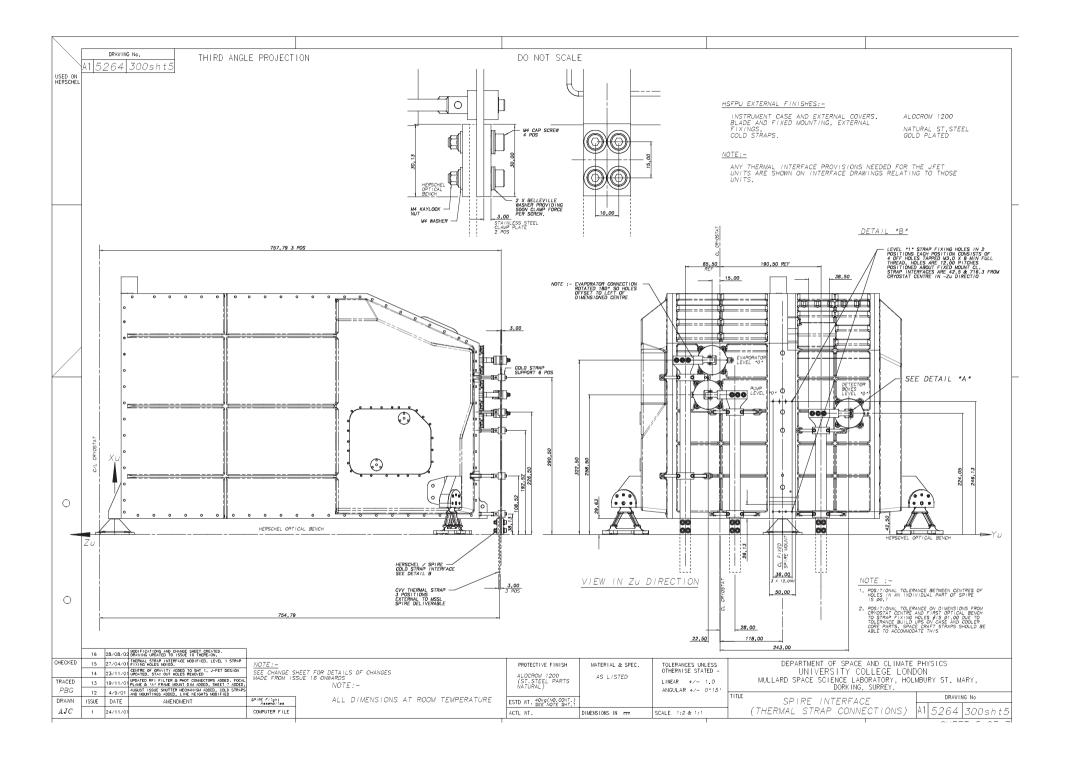
SHEET	MODIFICATION	
2	JFET note modified.	
1	Dimensions over Blade Mounts added.	
1	'Zu' axis added. Spacecraft co-ordinates note added.	
1	"Optical Datum Pin" note deleted.	
4	Mounting referencing hole added (fixed mounting).	
2	Section description note changed.	
3	10 mm mechanical clearance zone deleted.	
3	Shaded optical beams extended.	
3	Note wrt. Beam dimensions added.	
3	Reference cube angular mounting ad absolute accuracy note added.	
4	Floating details removed.	
4	Alignment of HOB wrt. Herschel to permit Spire to be aligned.	
5	Unit axes added.	
5	Cold Straps detail deleted (saved on new drawing A1/5264/300A).	
5	JFET thermal Interfaces note added. External to MSSL note added.	
5	HSFPU thermal finishes added. Note wrt. JFET thermal interfaces	
	added.	
6	Electrical isolation note wrt. Cold straps added.	
1	Mass updated. Moments of Inertia added.	
4	FPU mounting cone interface holes modified.	
4	Contact area of FPU interface Vespel insulators added.	
4	Note wrt. HOB flatness and tilt to Herschel X Axis added.	
5	Detail of FPU internal Level '0' straps deleted – Now on drawing	
	A1/5264/300A	
6	JFET harness "Stay Out" zones added.	
7	FPU cone to PACS clearance dimension added.	
ALL	BDA- Obsolete harness feedthroughs deleted.	
2	Addition of RF Filter connector numbers	

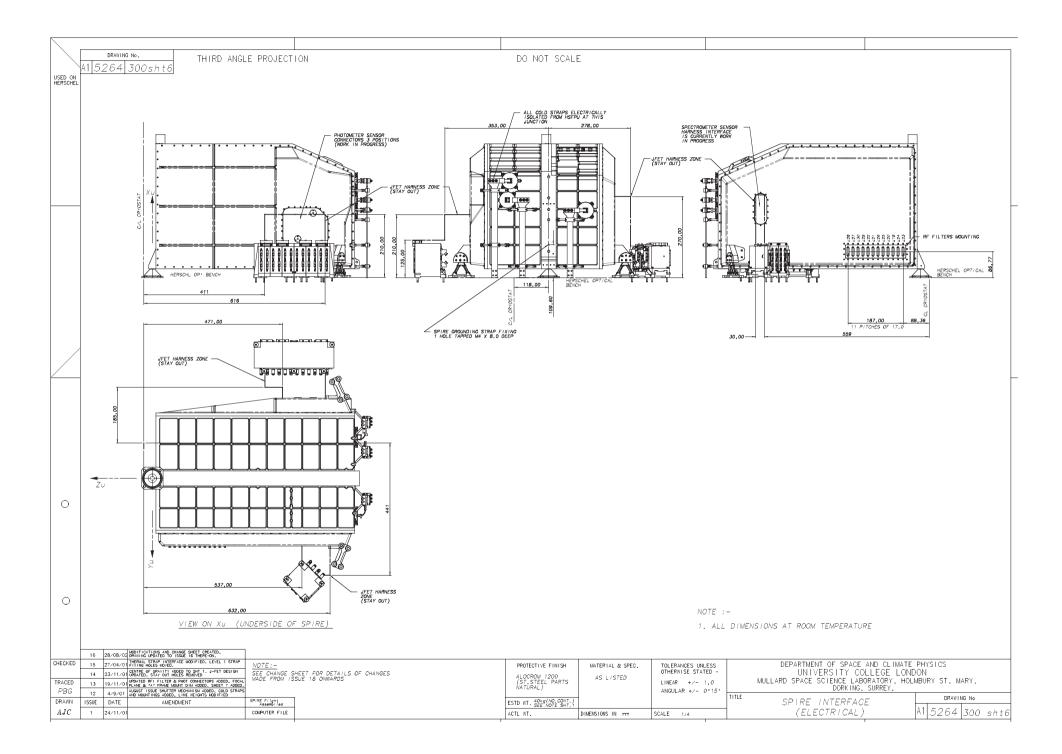


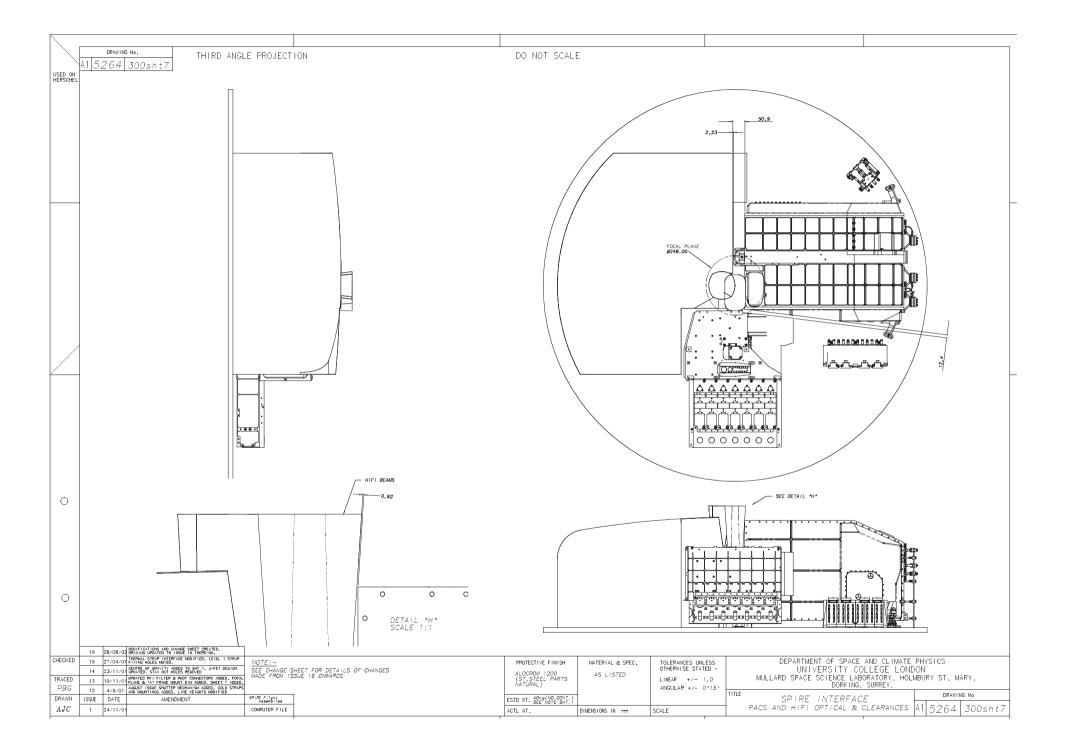


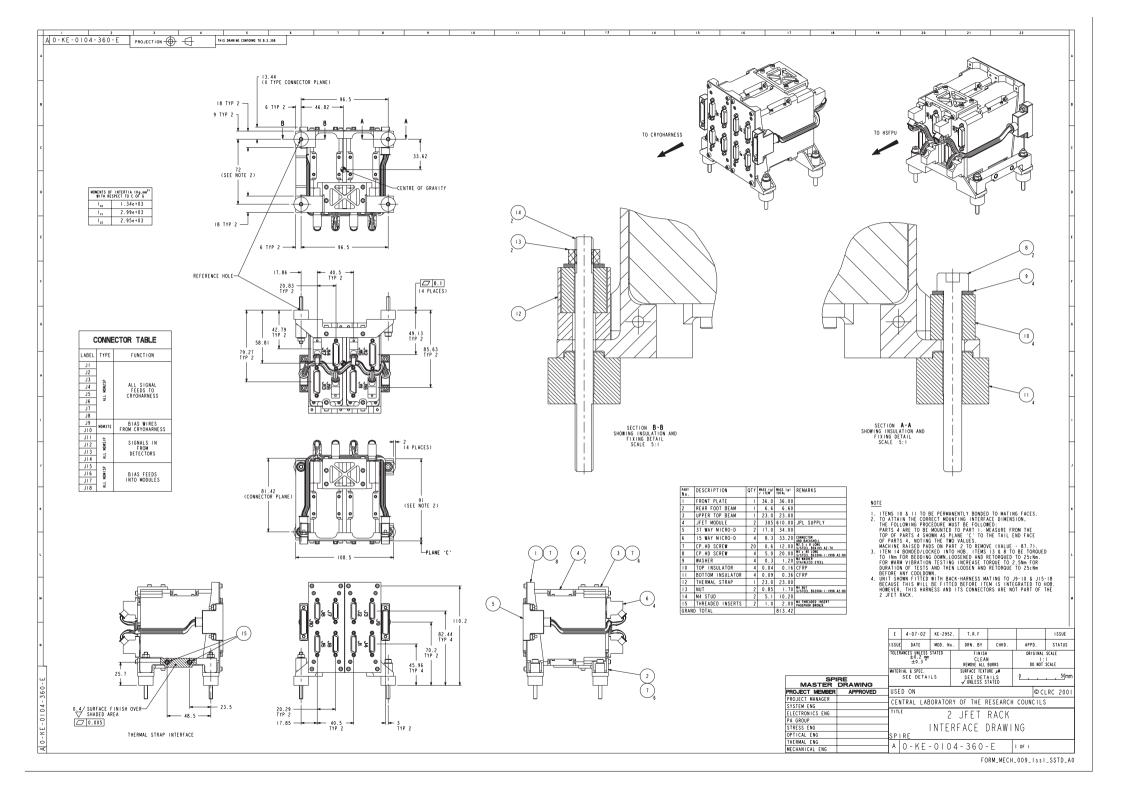


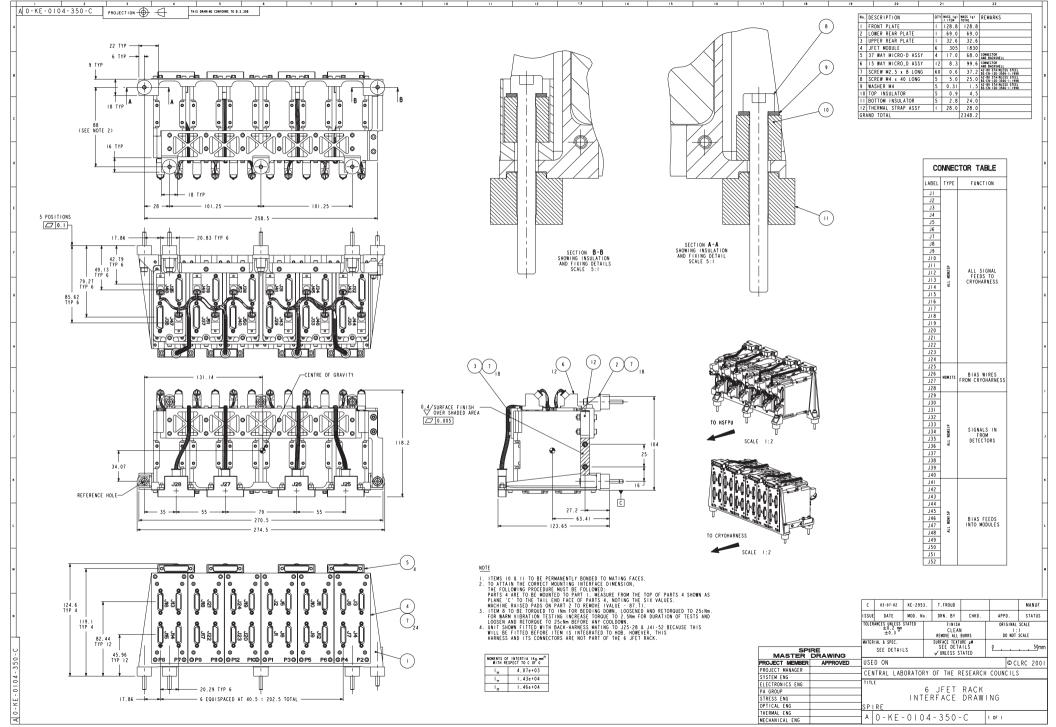


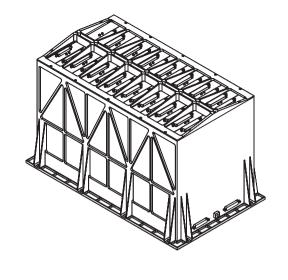


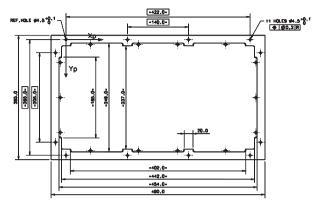








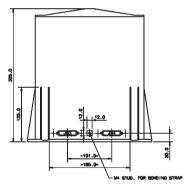


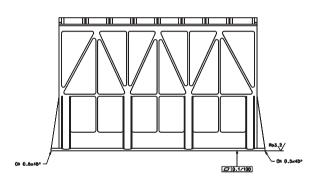


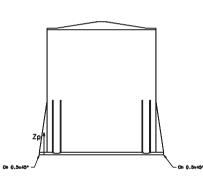
COMECTORS							
IDENT	TYPE	FUNCTIONS	IDENT	TYPE	FUNCTIONS		
JQ1	DBMA 25S	DAQ_IF_M/DPU_M	J17	DDMA 50P	LIA_P_7/FPU		
JQ2	DBMA 25S	DAQ_IF_R/DPU_R	J18	DDMA 50P	LIA_P_7/FPU		
JQ3	DBMA 25P	DCU/PSU_M	J19	DDMA 50P	LIA_P_8/FPU		
JQ4	DBMA 25P	DCU/PSU_R	J20	DDMA 50P	LIA_P_8/FPU		
J05	DDMA 50P	LIA_P_1/FPU	J21	DDMA 50P	LIA_P_9/FPU		
J06	DDMA 50P	LIA_P_1/FPU	J22	DDMA 50P	LIA_P_9/FPU		
JQ7	DDMA 5QP	LIA_P_2/FPU	J23	DCMA 37P	LIA_S_1/FPU		
J08	DDMA 50P	LIA_P_2/FPU	J24	DCMA 37P	LIA_S_1/FPU		
J09	DDMA 50P	LIA_P_3/FPU	J25	DCMA 37P	LIA_S_2/FPU		
J10	DDMA 50P	LIA_P_3/FPU	J26	DCMA 37P	LIA_S_2/FPU		
J11	DDMA 5QP	LIA_P_4/FPU	J27	DOMA 37P	LIA_\$_3/FPU		
J12	DDMA 5QP	L IA_P_4/FPU	J28	DCMA 37P	LIA_S_3/FPU		
J13	DDMA 50P	LIA_P_5/FPU	J29	DDMA 78S	BIAS_M/FPU		
J14	DDMA 5QP	LIA_P_5/FPU	J30	DDMA 78S	BIAS_R/FPU		
J15	DDMA 50P	LIA_P_6/FPU	J31	DCMA 37S	BIAS_M/FPU		
J18	DOMA 50P	LIA_P_6/FPU	J32	DOMA 37S	BIAS_R/FPU		

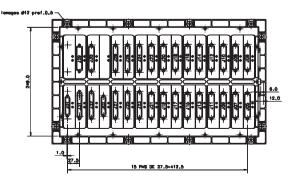
NOTES

MATERIAL AL 6082 CENTRE OF GRAVITY REFERRED TO REFERENCE HOLE X=213,2mm Y=132,4mm Z=157,9mm MOMENTS OF INERTIA REFERRED TO CENTRE OF GRAVITY JXp-4,71 N.m2 JYp-2,50 N.m2 JZp-4,44 N.m2 CONTACT AREA MOUNTING FEET-28180mm2 THERMAL COATING AND BLACK ANODISING ESA.PSS.703 SURFACE EMISSIVITY >0.85 SPECIFIC HEAT 1170 J/Kg. *K ESTIMATED MASS-15676g











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Traitement thermique:

SPIRE HSDCU ELECTRONIC BOX MECHANICAL INTERFACE CONTROL DRAWING

COMMISSARIAT A L'ENERGIE ATOMIQUE Tel:01:88:08:78:28 AO SPIR-MX-5100 000 C

