

From jrcl@hep.phy.cam.ac.uk Fri Nov 9 20:57:49 2001  
Date: Fri, 09 Nov 2001 11:00:53 +0000  
From: Janet Carter <jrcl@hep.phy.cam.ac.uk>  
Subject: Release of series BB BeO facing drawings

Dear Colleagues,

We are ready (and need) to release the series production of the barrel baseboard BeO facings next week.

As you know, small changes to the facings compared with the approved pre-series (SCT-BM-FDR-5.2, Appendix 3) have been suggested and agreed in various e-mails sent to you by Tony over the past month or two.

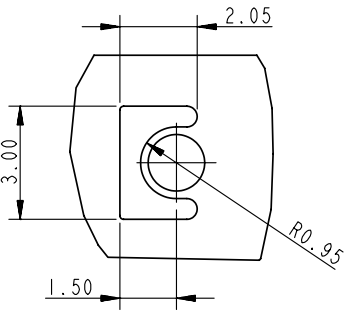
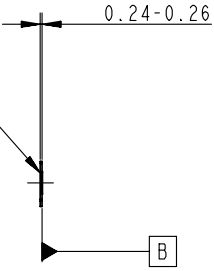
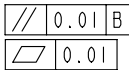
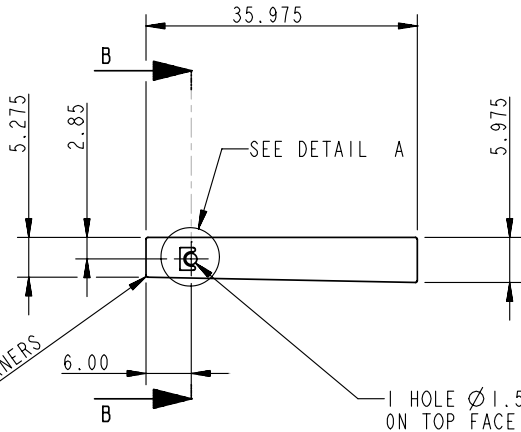
The attached drawings incorporate these changes.

The changes are:

1. The diameters of the BeO openings around the mounting holes are increased by 200 microns (a BB mass-production manufacturing issue)
2. The small hole in the bottom large facing is closed (extra HV security). Whether or not the hole in the bottom small facing is closed will be a subject of final discussion with the supplier next week.
3. The gold pattern of the small facing is altered in shape, to give more room for the top of the 3rd mounting point on the barrel.
4. The gold pattern on the large facing has been rotated through 90 degrees to provide more metal up the side of the hybrid for bonding.

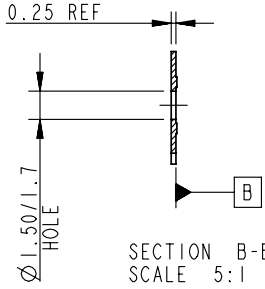
\*\*\* The assumption is that the 3rd mounting point fixture is insulating where it contacts the facings on both the top and lower surfaces of the baseboard. \*\*\*

Thank you, Janet



DETAIL A  
SCALE 10:1

GOLD PAD THICKNESS 0.013±0.005



FACING SURFACES TO BE CLEAN,  
SMOOTH, WITHOUT CRACKS, FISSURES  
OR VISIBLE MECHANICAL DEFECTS

MATL :-  
BERYLLIA CERAMIC, COMPRISING NOMINALLY  
99.5% BERYLLIUM OXIDE  
MIN. DENSITY - 2.86gm/cc  
SUPPLIED DUST FREE IN SEALED PLASTIC

A3 TB-0059-502

SECTION B-B  
SCALE 5:1

G	--/--/--	-----	P FORD	---	---	WIP
ISSUE	DATE APPD	MOD. No.	DRN. BY	CHKD BY.	APPD BY.	STATUS
USED ON					A1-TB-0059-500/508	
© CLRC 2000						
CENTRAL LABORATORY OF THE RESEARCH COUNCILS RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX1100X						
TITLE						
<b>FACING-FAR SIDE-UPPER (BeO)</b>						
<b>ATLAS SCT BARREL MODULE</b>						
ATLAS_ID						ADR025
<b>A3 TB-0059-502</b>					SHEET	<b>1 of 1</b>
						<b>G</b>

TOLERANCES UNLESS STATED	FINISH	ORIGINAL SCALE
±0.025 mm ±0.025	REFER TO DRAWING NOTE REMOVE ALL BURRS	2:1 DO NOT SCALE
MATERIAL & SPEC.	SURFACE TEXTURE µm STOCK	
SEE DRG -----	UNLESS STATED	

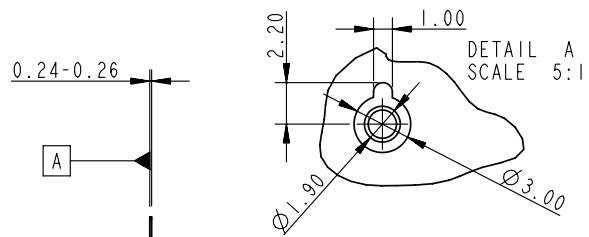
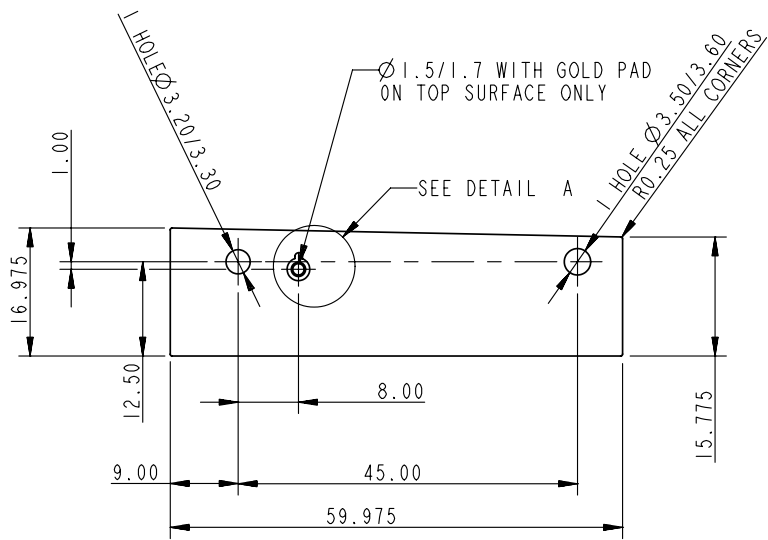
A3

TB-0059-503

PROJECTION

THIS DRAWING CONFORMS TO B.S. 308

GOLD PAD THICKNESS 0.013±0.005



	0.01	A
	0.01	

TOLERANCES FOR CERAMIC ONLY

MATL :-  
 BERYLLIA CERAMIC, COMPRISING NOMINALLY  
 99.5% BERYLLIUM OXIDE  
 MIN. DENSITY - 2.86 gm/cc  
 SUPPLIED DUST FREE IN SEALED PLASTIC

FACING SURFACES TO BE CLEAN,  
 SMOOTH, WITHOUT CRACKS, FISSURES  
 OR VISIBLE MECHANICAL DEFECTS

TB-0059-503

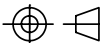
G	--/---/--	-----.	P FORD	---	---	WIP
ISSUE	DATE APPD	MOD. No.	DRN. BY	CHKD BY.	APPD BY.	STATUS
USED ON					A1-TB-0059-500/508	
© CLRC 2000						
CENTRAL LABORATORY OF THE RESEARCH COUNCILS RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX110X						
TITLE						
<b>FACING-COOLED SIDE-UPPER (BeO)</b>						
<b>ATLAS INNER TRACKER-ENGINEERING MODULE</b>						
ATLAS_ID						ADR025
<b>A3 TB-0059-503</b>					SHEET	<b>1 of 1</b>
						<b>G</b>

TOLERANCES UNLESS STATED	FINISH	ORIGINAL SCALE
±0.025 mm ±0.250	REFER TO DRAWING NOTE REMOVE ALL BURRS	2:1 DO NOT SCALE
MATERIAL & SPEC.	SURFACE TEXTURE µm STOCK	
SEE DRG -----	✓ UNLESS STATED	

A3

TB-0059-504

PROJECTION

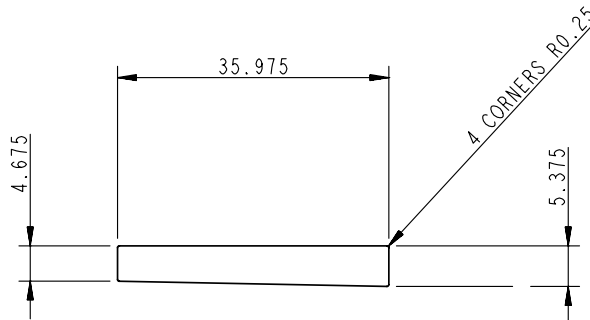


THIS DRAWING CONFORMS TO B.S. 308

0.24-0.26

A

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/ /	0.01	



FACING SURFACES TO BE CLEAN,  
SMOOTH, WITHOUT CRACKS, FISSURES  
OR VISIBLE MECHANICAL DEFECTS

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BERYLLIA CERAMIC, COMPRISING NOMINALLY  
99.5% BERYLLIUM OXIDE  
MIN. DENSITY - 2.86 gm/cc.  
SUPPLIED DUST FREE IN SEALED PLASTIC

TB-0059-504

A3

G	--/---/--	-----.	P FORD	---	---	WIP
ISSUE	DATE APPD	MOD. No.	DRN. BY	CHKD BY.	APPD BY.	STATUS
USED ON					A1-TB-0059-500/508	
CENTRAL LABORATORY OF THE RESEARCH COUNCILS					RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX1100X	
TITLE						
FACING-FAR SIDE-LOWER (BeO)						
ATLAS SCT BARREL MODULE						
ATLAS_ID					ADR025	
A3 TB-0059-504					SHEET 1 OF 1	

TOLERANCES UNLESS STATED

 $\pm 0.025$  mm  
 $\pm 0.025$ 

FINISH

 REFER TO DRAWING NOTE  
 REMOVE ALL BURRS

ORIGINAL SCALE

 2:1  
 DO NOT SCALE

MATERIAL &amp; SPEC.

 SEE DRG  
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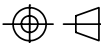
 SURFACE TEXTURE  $\mu$ m  
 STOCK

✓ UNLESS STATED

A3

TB-0059-505

PROJECTION

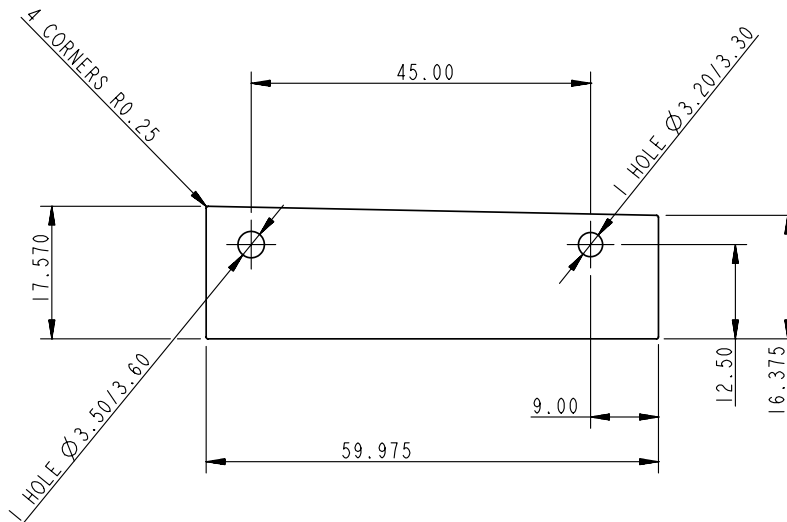


THIS DRAWING CONFORMS TO B.S. 308

0.24-0.26

C

	0.01	C
	0.01	



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TB-0059-505

G	--/---/--	-----.	P FORD	---	---	WIP
ISSUE	DATE APPD	MOD. No.	DRN. BY	CHKD BY.	APPD BY.	STATUS
USED ON					A1-TB-0059-500/508	
CENTRAL LABORATORY OF THE RESEARCH COUNCILS					RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX1100X	
TITLE			FACING-COOLED SIDE-LOWER (BeO)			
ATLAS_ID			ATLAS SCT BARREL MODULE			
			ADR025			
A3 TB-0059-505					SHEET 1 OF 1	
					G	

TOLERANCES UNLESS STATED

 $\pm 0.025$  mm  
 $\pm 0.025$ 

FINISH

 REFER TO DRAWING NOTE  
 REMOVE ALL BURRS

ORIGINAL SCALE

 2:1  
 DO NOT SCALE

MATERIAL &amp; SPEC.

 SEE DRG  
 -----

 SURFACE TEXTURE  $\mu$ m  
 STOCK

UNLESS STATED