

DOUBLE SIDED

NOTES:

1. MATERIAL: FR-4 .062" +/- .005", SEE INVENSYS CONTROLS SPEC. 090-00280.

2. COPPER: 1oz (APPROX. .00135" THK.) FINISHED.

3. ANNUAL COPPER RING AROUND HOLES .005 MIN.

4. TRACE SIZE TOLERANCE: +/-0.001 OF GERBER DATA.

5. FINISH: SOLDER FINISH, HOT AIR LEVELED (NO LEAD SOLDER).

6. TOOLING HOLES, CUTOUTS & SLOTS: ALL NON-PLATED UNLESS SPECIFIED IN TOOL CHART.

7. (REFER TO TOOL CHART FOR PLATED HOLES.)

8. A. NO COPPER IN OR AROUND TOOLING HOLES OR BREAKAWAY SLOTS.)

9. B. 0.031 TYP. INSIDE RADIUS UNLESS OTHERWISE SPECIFIED.

10. C. HOLE TOLERANCES:

11. TOOLING HOLE TO TOOLING HOLE: +/-0.003

12. HOLE TO HOLE: +/-0.005

13. HOLE DIA: +/-0.003

14. TOOLING HOLE 156 DIA: +0/0.03/-0.000

15. D. ON DRILL AND ROUTE PCB'S INCREASE (0.036, 0.041, 0.047).

16. HOLE SIZES BY 0.003 UNLESS OTHERWISE SPECIFIED.

17. 4. IF V-GROOVED:

18. GROOVE 2 SIDES, LEAVE .014" THK. MATERIAL REMAINING.

19. 5. SOLDER RESIST:

20. A. L.P.I., TAIYO PSR-4000, UV CURED, WHITE, OVER BARE COPPER.

21. 6. COMPONENT LEGEND:

22. A. COMPONENT SIDE AND SOLDER SIDE BLACK.

23. B. VENDOR ID, DATE, LOT AND UL FLAME RATING TO APPEAR WHERE INDICATED ON COMPONENT LEGEND.

24. C. ALL ARTWORK AND DRAWINGS ARE COMPONENT SIDE VIEW.

7. QUALITY:

8. A. ALL BOARDS (EXCEPT PROTOTYPES) TO BE 100% ELECTRICALLY TESTED FOR OPENS AND SHORTS.

9. B. PART MUST MEET THE GENERAL REQUIREMENTS OF THE INSTITUTE OF PRINTED CIRCUITS SPECIFICATION IPC-A-600, CLASS 2.

10. C. PARTS SHALL BE FREE OF BURRS, SHARP EDGES, AND FOREIGN MATERIAL.

11. D. PARTS TO MEASURE LESS THAN 10ug/SQ.IN. SURFACE CONTAMINATION AFTER 5 MINUTES AS MEASURED BY AN OMEGA METER.

12. 8. MISCELLANEOUS:

13. A. MAX. WARP & TWIST PER IPC-TM-650 METHOD 2.4.22.

14. B. PACKING MUST BE ADEQUATE TO INSURE ARRIVAL IN A CLEAN, UNDAMAGED CONDITION.

15. C. PEELEABLE MASK MATERIAL: PETERS SD-2952

16. 9. PC BOARD TO BE A UL RECOGNIZED COMPONENT WITH THE REQUIRED CODE MARKINGS APPLIED SEE INVENSYS CONTROLS SPEC. 090-00280.

17. 10. ALL PARTS SHALL MEET INVENSYS SOLDERABILITY SPECIFICATION 090-00005.

18. 11. ARTWORK MUST BE PROVIDED TO INCOMING INSPECTION WITH ALL FIRST TIME RELEASED PC BOARDS AND ANY REVISION CHANGES.

19. 12. NO CHANGES IN MATERIAL OR PROCESSES WITHOUT INVENSYS APPLIANCE CONTROLS APPROVAL.

20. 13. ALL DIM IN INCHES UNLESS OTHERWISE NOTED.

21. 14. THIS PART OR ASSEMBLY MUST BE COMPLAINT WITH THE EUROPEAN UNION DIRECTIVE 2002/95/EC (ROHS DIRECTIVE; 27 JANUARY 2003), AS AMENDED, AT THE TIME OF ANY ORDER.

ATTENTION: SEE NOTE 5A FOR WHITE SOLDER RESIST,  
AND NOTE 6A FOR BLACK COMPONENT LEGENDS.

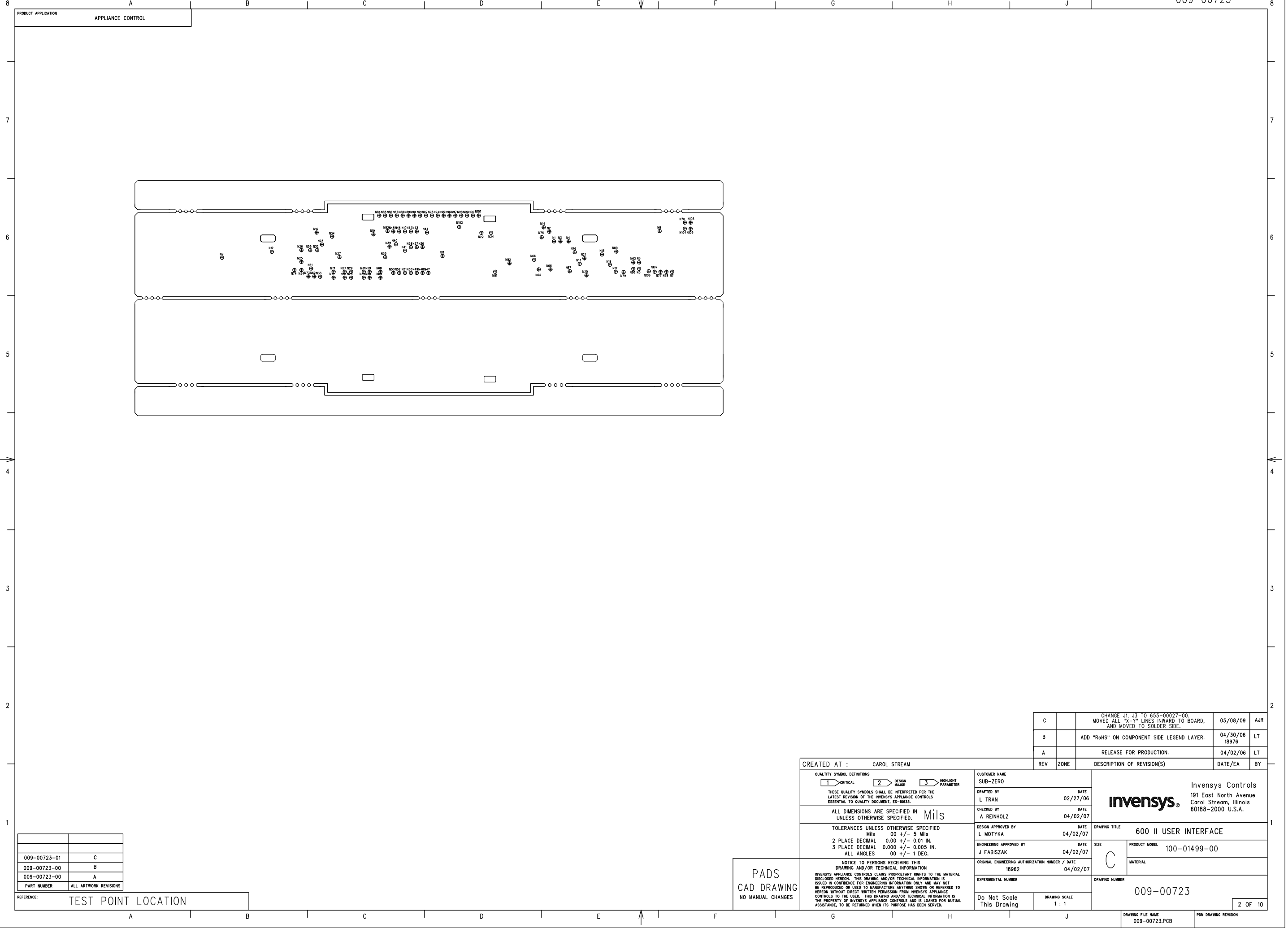
SIZE	QTY	SYM	PLATED	TOL
15	132	+A	YES	Note3
20	34	+B	YES	Note3
35	20	+C	YES	Note3
36	2	+D	YES	Note3
40	8	+E	YES	Note3
43	5	+F	YES	Note3
156	8	+G	NO	Note3

009-00723-01	C
009-00723-00	B
009-00723-00	A
PART NUMBER	ALL ARTWORK REVISIONS

REFERENCE: PCB DETAIL LAYOUT

PADS  
CAD DRAWING  
NO MANUAL CHANGES

CREATED AT : CAROL STREAM		REV	ZONE	DESCRIPTION OF REVISION(S)	DATE/EA	BY
C				CHANGE J1, J3 TO 655-00027-00. MOVED ALL "X-Y" LINES INWARD TO BOARD, AND MOVED TO SOLDER SIDE.	05/08/09	AJR
B				ADD "RoHS" ON COMPONENT SIDE LEGEND LAYER.	04/30/06 18976	LT
A				RELEASE FOR PRODUCTION.	04/02/06	LT
QUALITY SYMBOL DEFINITIONS		CUSTOMER NAME		Invensys Controls 191 East North Avenue Carol Stream, Illinois 60188-2000 U.S.A.		
1 CRITICAL 2 DESIGN MAJOR 3 HIGHLIGHT PARAMETER		SUB-ZERO				
THESE QUALITY SYMBOLS SHALL BE INTERPRETED PER THE LATEST REVISION OF THE INVENSYS APPLIANCE CONTROLS ESSENTIAL TO QUALITY DOCUMENT, ES-10635.		DRAFTED BY L TRAN DATE 02/27/06				
ALL DIMENSIONS ARE SPECIFIED IN Mils UNLESS OTHERWISE SPECIFIED.		CHECKED BY A REINHOLZ DATE 04/02/07				
TOLERANCES UNLESS OTHERWISE SPECIFIED		DESIGN APPROVED BY L MOTYKA DATE 04/02/07		DRAWING TITLE 600 II USER INTERFACE		
2 PLACE DECIMAL 0.00 +/- 0.01 IN.		ENGINEERING APPROVED BY J FABISZAK DATE 04/02/07		SIZE C PRODUCT MODEL 100-01499-00		
3 PLACE DECIMAL 0.000 +/- 0.005 IN.		ORIGINAL ENGINEERING AUTHORIZATION NUMBER / DATE 18962 04/02/07		MATERIAL		
ALL ANGLES 00 +/- 1 DEG.		EXPERIMENTAL NUMBER		DRAWING NUMBER 009-00723		
NOTICE TO PERSONS RECEIVING THIS DRAWING AND/OR TECHNICAL INFORMATION		Do Not Scale This Drawing		DRAWING SCALE 1 : 1		
INVENSYS APPLIANCE CONTROLS CLAIMS PROPRIETARY RIGHTS TO THE MATERIAL DISCLOSED HEREON. THIS DRAWING AND/OR TECHNICAL INFORMATION IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY AND MAY NOT BE REPRODUCED OR USED TO MANUFACTURE ANYTHING SHOWN OR REFERRED TO HEREIN WITHOUT DIRECT WRITTEN PERMISSION FROM INVENSYS APPLIANCE CONTROLS TO THE USER. THIS DRAWING AND/OR TECHNICAL INFORMATION IS THE PROPERTY OF INVENSYS APPLIANCE CONTROLS AND IS LOANED FOR MUTUAL ASSISTANCE, TO BE RETURNED WHEN ITS PURPOSE HAS BEEN SERVED.		DRAWING FILE NAME 009-00723.PCB		PDM DRAWING REVISION 1 OF 10		

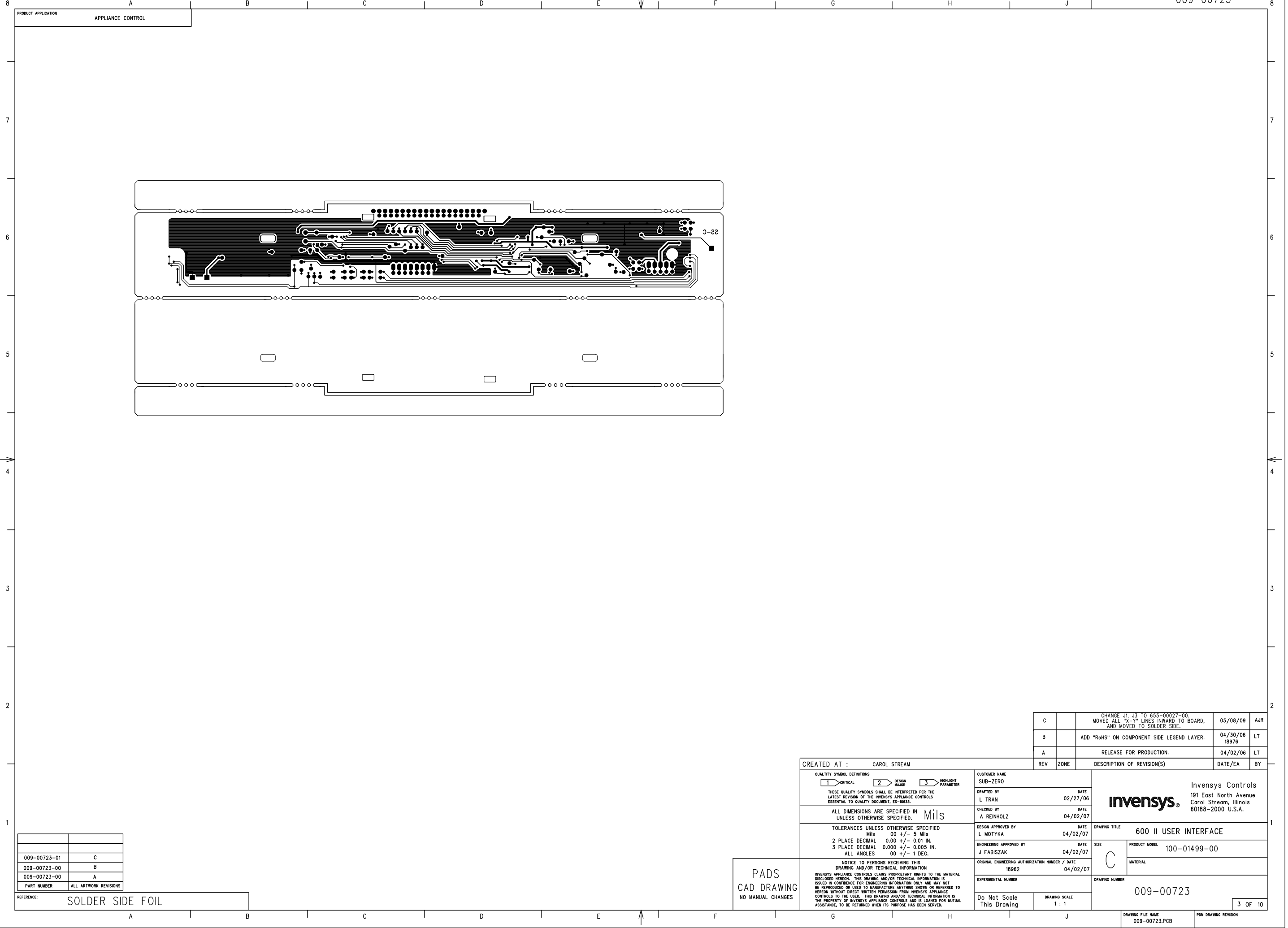


009-00723-01	C
009-00723-00	B
009-00723-00	A
PART NUMBER	ALL ARTWORK REVISIONS

REFERENCE: TEST POINT LOCATION

C		CHANGE J1, J3 TO 655-00027-00. MOVED ALL "X-Y" LINES INWARD TO BOARD, AND MOVED TO SOLDER SIDE.	05/08/09	AJR
B		ADD "RoHS" ON COMPONENT SIDE LEGEND LAYER.	04/30/06 18976	LT
A		RELEASE FOR PRODUCTION.	04/02/06	LT
REV	ZONE	DESCRIPTION OF REVISION(S)	DATE/EA	BY

CREATED AT : CAROL STREAM		REV		ZONE	DESCRIPTION OF REVISION(S)		DATE/EA		BY
QUALITY SYMBOL DEFINITIONS <div>1 CRITICAL2 DESIGN MAJOR3 HIGHLIGHT PARAMETER</div> <p>THESE QUALITY SYMBOLS SHALL BE INTERPRETED PER THE LATEST REVISION OF THE INVENSYS APPLIANCE CONTROLS ESSENTIAL TO QUALITY DOCUMENT, ES-10633.</p> <p>ALL DIMENSIONS ARE SPECIFIED IN UNLESS OTHERWISE SPECIFIED. Mils</p>		CUSTOMER NAME SUB-ZERO		DRAFTED BY L. TRAN		DATE 02/27/06		Invensys Controls 191 East North Avenue Carol Stream, Illinois 60188-2000 U.S.A.	
		CHECKED BY A. REINHOLZ		DATE 04/02/07					
TOLERANCES UNLESS OTHERWISE SPECIFIED Mils 00 +/- 5 MILS 2 PLACE DECIMAL 0.00 +/- 0.01 IN. 3 PLACE DECIMAL 0.000 +/- 0.005 IN. ALL ANGLES 00 +/- 1 DEG.		DESIGN APPROVED BY L. MOTYKA		DATE 04/02/07		DRAWING TITLE 600 II USER INTERFACE			
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		ORIGINAL ENGINEERING AUTHORIZATION NUMBER / DATE 18962 04/02/07				MATERIAL			
		EXPERIMENTAL NUMBER				DRAWING NUMBER 009-00723			
PADS CAD DRAWING NO MANUAL CHANGES		Do Not Scale This Drawing		DRAWING SCALE 1 : 1				2 OF 10	

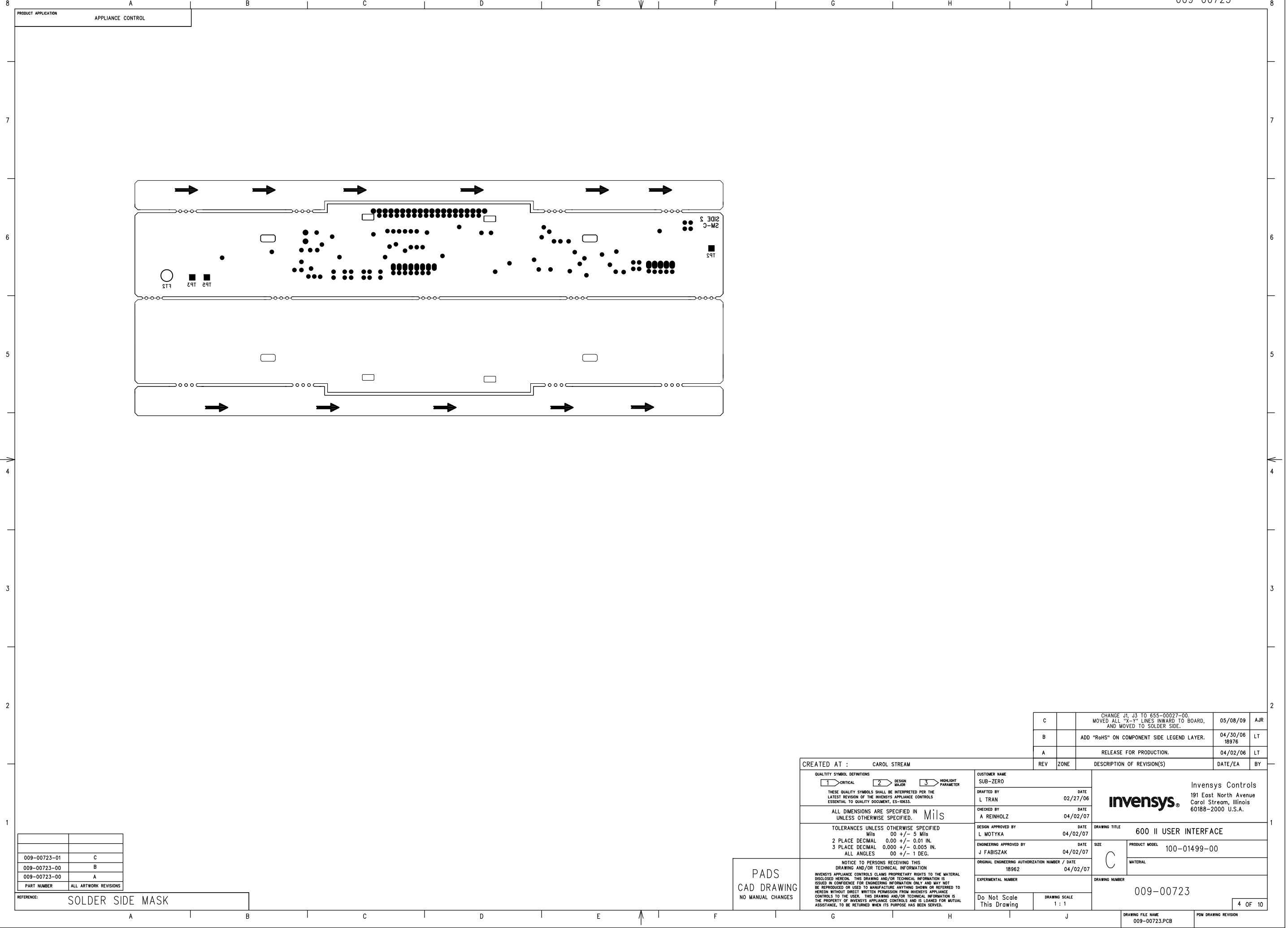


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PART NUMBER	ALL ARTWORK REVISIONS

REFERENCE: SOLDER SIDE FOIL

C		CHANGE J1, J3 TO 655-00027-00. MOVED ALL "X-Y" LINES INWARD TO BOARD, AND MOVED TO SOLDER SIDE.	05/08/09	AJR
B		ADD "RoHS" ON COMPONENT SIDE LEGEND LAYER.	04/30/06 18976	LT
A		RELEASE FOR PRODUCTION.	04/02/06	LT
REV	ZONE	DESCRIPTION OF REVISION(S)	DATE/EA	BY

CREATED AT : CAROL STREAM		REV		ZONE		DESCRIPTION OF REVISION(S)		DATE/EA		BY	
QUALITY SYMBOL DEFINITIONS <div><div>1</div>CRITICAL</div> <div><div>2</div>DESIGN MAJOR</div> <div><div>3</div>HIGHLIGHT PARAMETER</div> <p>THESE QUALITY SYMBOLS SHALL BE INTERPRETED PER THE LATEST REVISION OF THE INVENSYS APPLIANCE CONTROLS ESSENTIAL TO QUALITY DOCUMENT, ES-10033.</p> <p>ALL DIMENSIONS ARE SPECIFIED IN UNLESS OTHERWISE SPECIFIED.</p> Mils		CUSTOMER NAME SUB-ZERO		DRAFTED BY L. TRAN		DATE 02/27/06		<div>Invensys Controls</div> <div>191 East North Avenue</div> <div>Carol Stream, Illinois</div> <div>60188-2000 U.S.A.</div>			
		CHECKED BY A. REINHOLZ		DATE 04/02/07							
TOLERANCES UNLESS OTHERWISE SPECIFIED Mils .00 +/- .5 MILS 2 PLACE DECIMAL .000 +/- .001 IN. 3 PLACE DECIMAL .0000 +/- .0005 IN. ALL ANGLES .00 +/- 1 DEG.		DESIGN APPROVED BY L. MOTYKA		DATE 04/02/07		DRAWING TITLE 600 II USER INTERFACE					
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		EXPERIMENTAL NUMBER				DRAWING NUMBER		009-00723			
		Do Not Scale This Drawing		DRAWING SCALE 1 : 1				3 OF 10			



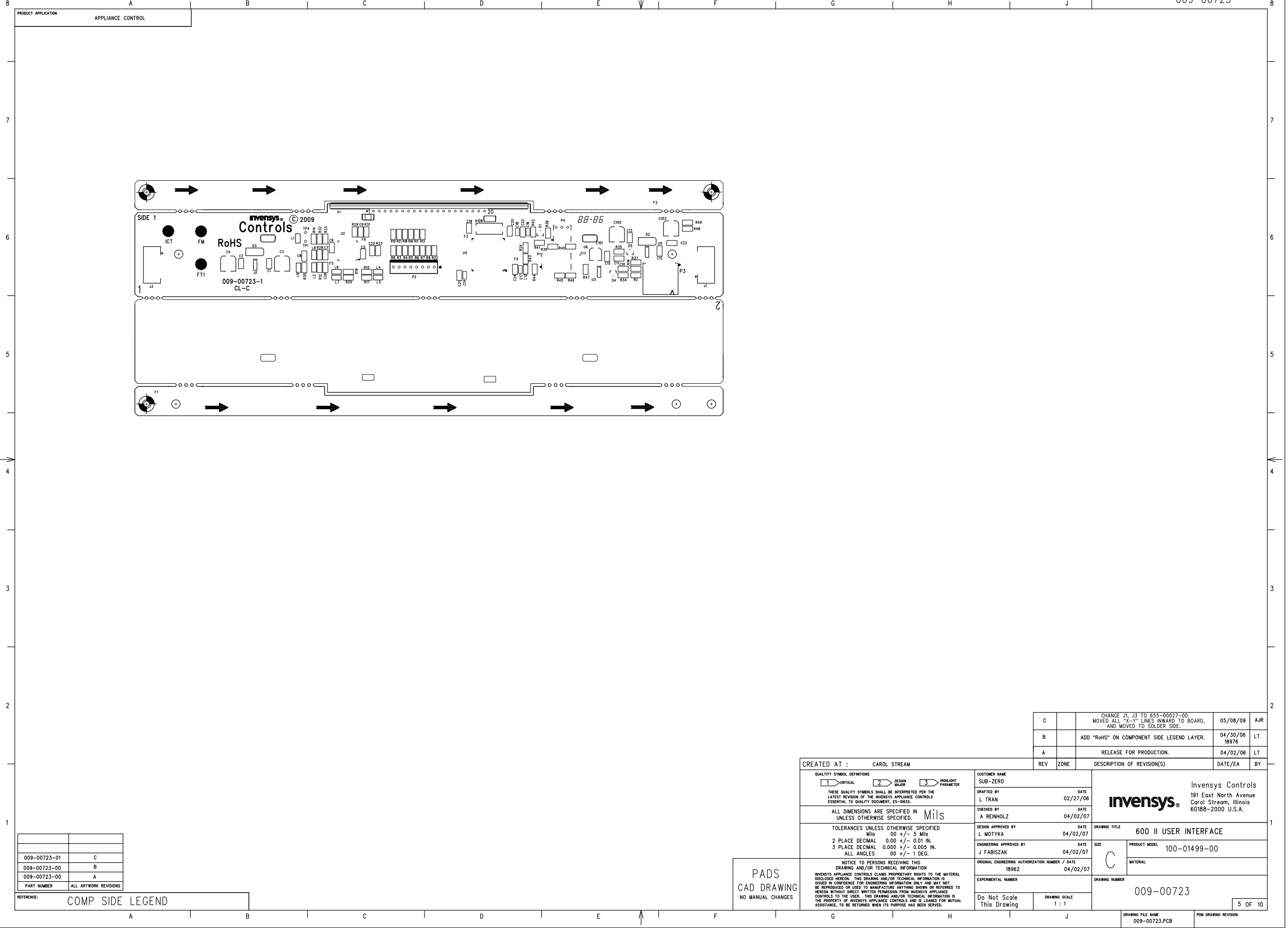
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REFERENCE: SOLDER SIDE MASK

PADS  
CAD DRAWING  
NO MANUAL CHANGES

CREATED AT : CAROL STREAM		CUSTOMER NAME SUB-ZERO		<div>Invensys Controls</div> <div>191 East North Avenue Carol Stream, Illinois 60188-2000 U.S.A.</div>	
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		DRAWING SCALE 1 : 1		DRAWING NUMBER 009-00723	
				4 OF 10	

REV	ZONE	DESCRIPTION OF REVISION(S)	DATE/EA	BY
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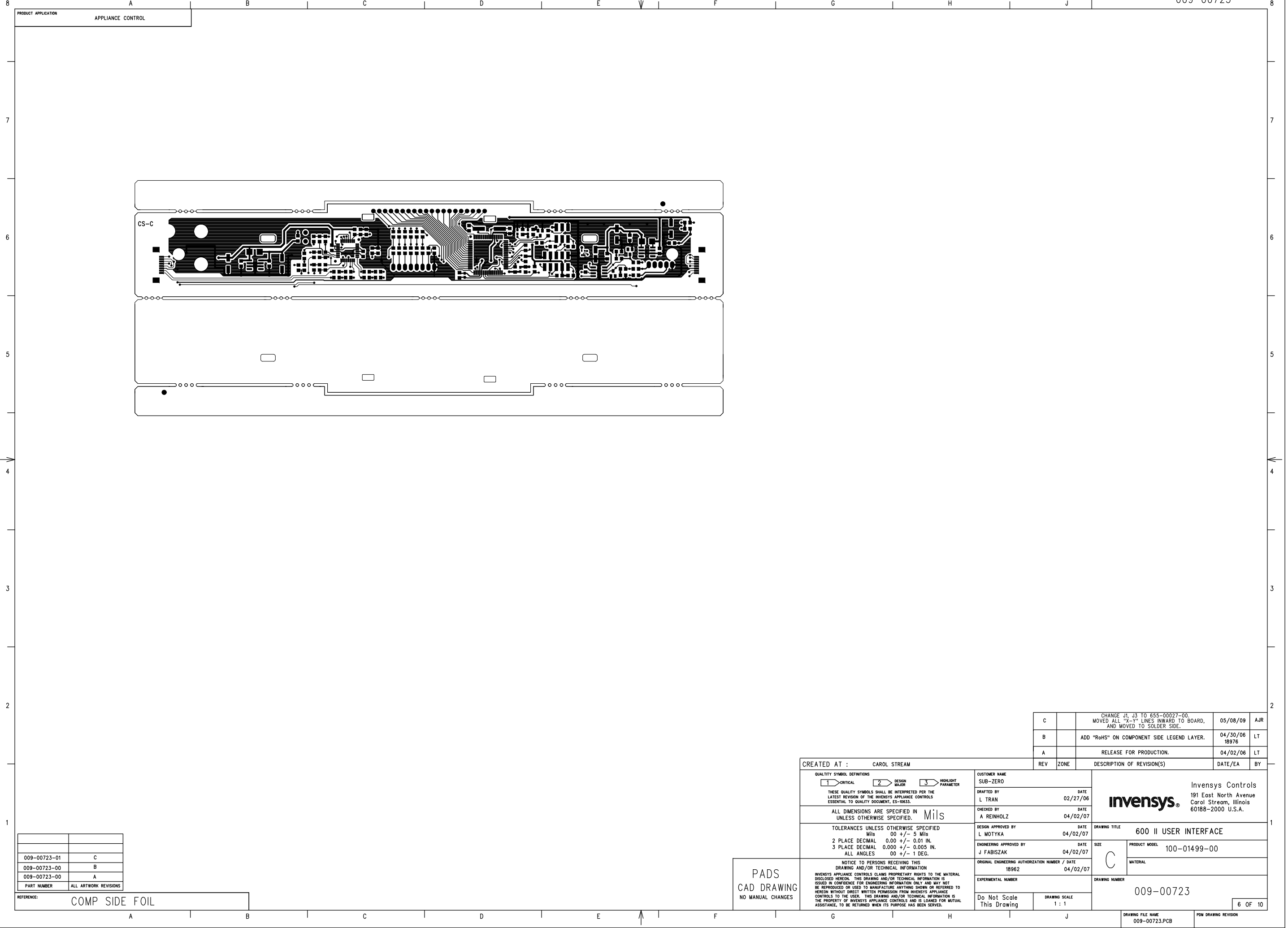
009-00723-01	C
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PART NUMBER	ALL ARTWORK REVISIONS

REFERENCE: COMP SIDE LEGEND

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						ORIGINAL ENGINEERING AUTHORIZATION NUMBER / DATE 18962 04/02/07		PRODUCT MODEL 100-01499-00		MATERIAL			
						EXPERIMENTAL NUMBER		DRAWING NUMBER					
Do Not Scale This Drawing						DRAWING SCALE 1 : 1		009-00723					
								5 OF 10					

C		CHANGE J1, J3 TO 655-00027-00. MOVED ALL "X-Y" LINES INWARD TO BOARD, AND MOVED TO SOLDER SIDE.	05/08/09	AJR
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A		RELEASE FOR PRODUCTION.	04/02/06	LT
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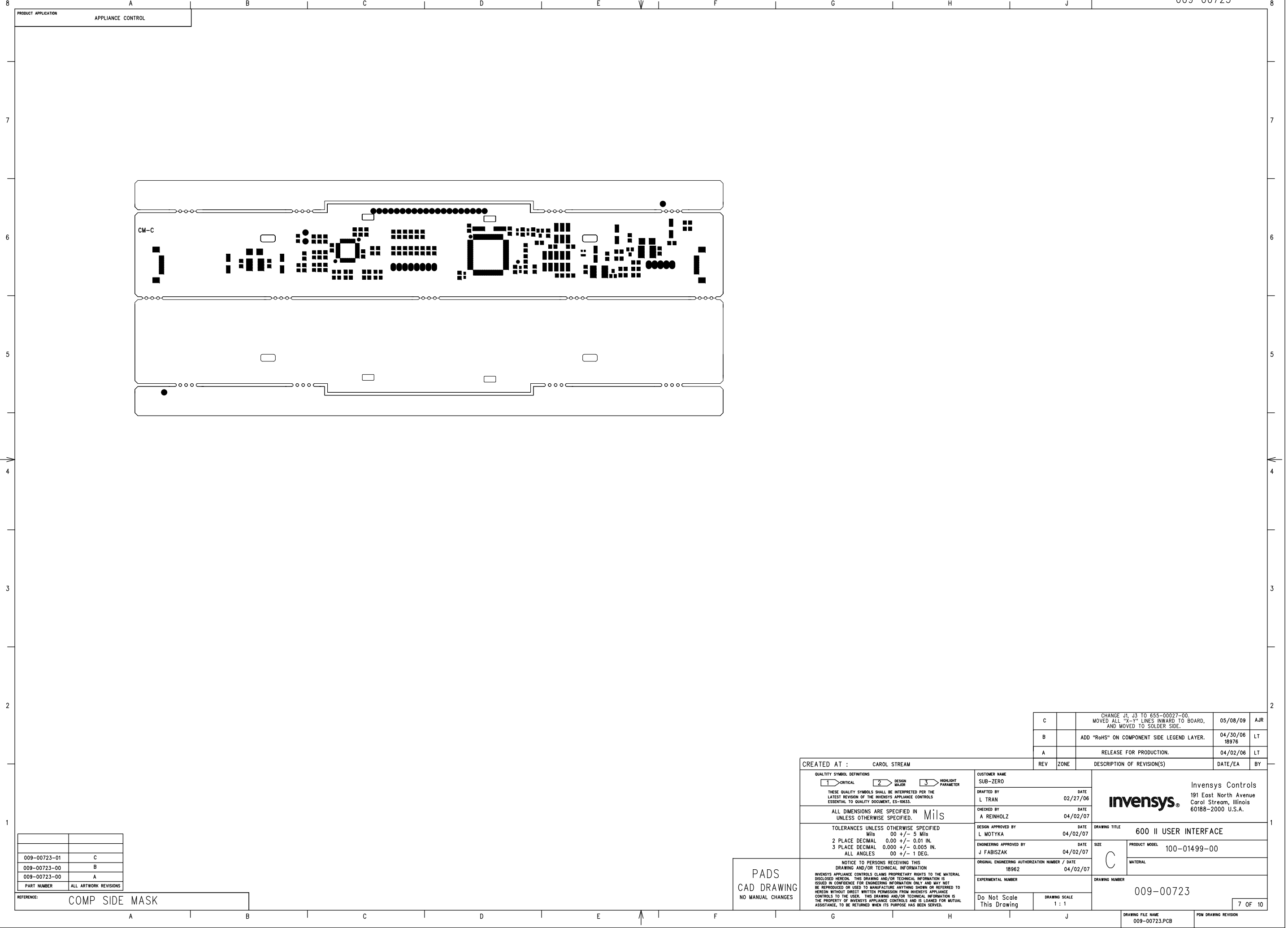
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009-00723-00	B
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PART NUMBER	ALL ARTWORK REVISIONS

REFERENCE: COMP SIDE FOIL

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NO MANUAL CHANGES

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QUALITY SYMBOL DEFINITIONS			CUSTOMER NAME		<div>Invensys Controls</div> <div>191 East North Avenue</div> <div>Carol Stream, Illinois</div> <div>60188-2000 U.S.A.</div>				
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ALL DIMENSIONS ARE SPECIFIED IN UNLESS OTHERWISE SPECIFIED. Mils			L TRAN						
TOLERANCES UNLESS OTHERWISE SPECIFIED			DESIGN APPROVED BY		DATE		DRAWING TITLE		
Mils 00 +/- 5 Mils			L MOTYKA		04/02/07		600 II USER INTERFACE		
2 PLACE DECIMAL 0.00 +/- 0.01 IN.			ENGINEERING APPROVED BY		DATE		SIZE		PRODUCT MODEL
3 PLACE DECIMAL 0.000 +/- 0.005 IN.			J FABISZAK		04/02/07		C		100-01499-00
ALL ANGLES 00 +/- 1 DEG.			ORIGINAL ENGINEERING AUTHORIZATION NUMBER / DATE		DATE		MATERIAL		
NOTICE TO PERSONS RECEIVING THIS DRAWING AND/OR TECHNICAL INFORMATION			18962		04/02/07		DRAWING NUMBER		
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			Do Not Scale This Drawing		DRAWING SCALE 1 : 1		6 OF 10		



009-00723-01	C
009-00723-00	B
009-00723-00	A
PART NUMBER	ALL ARTWORK REVISIONS

REFERENCE: COMP SIDE MASK

PADS  
CAD DRAWING  
NO MANUAL CHANGES

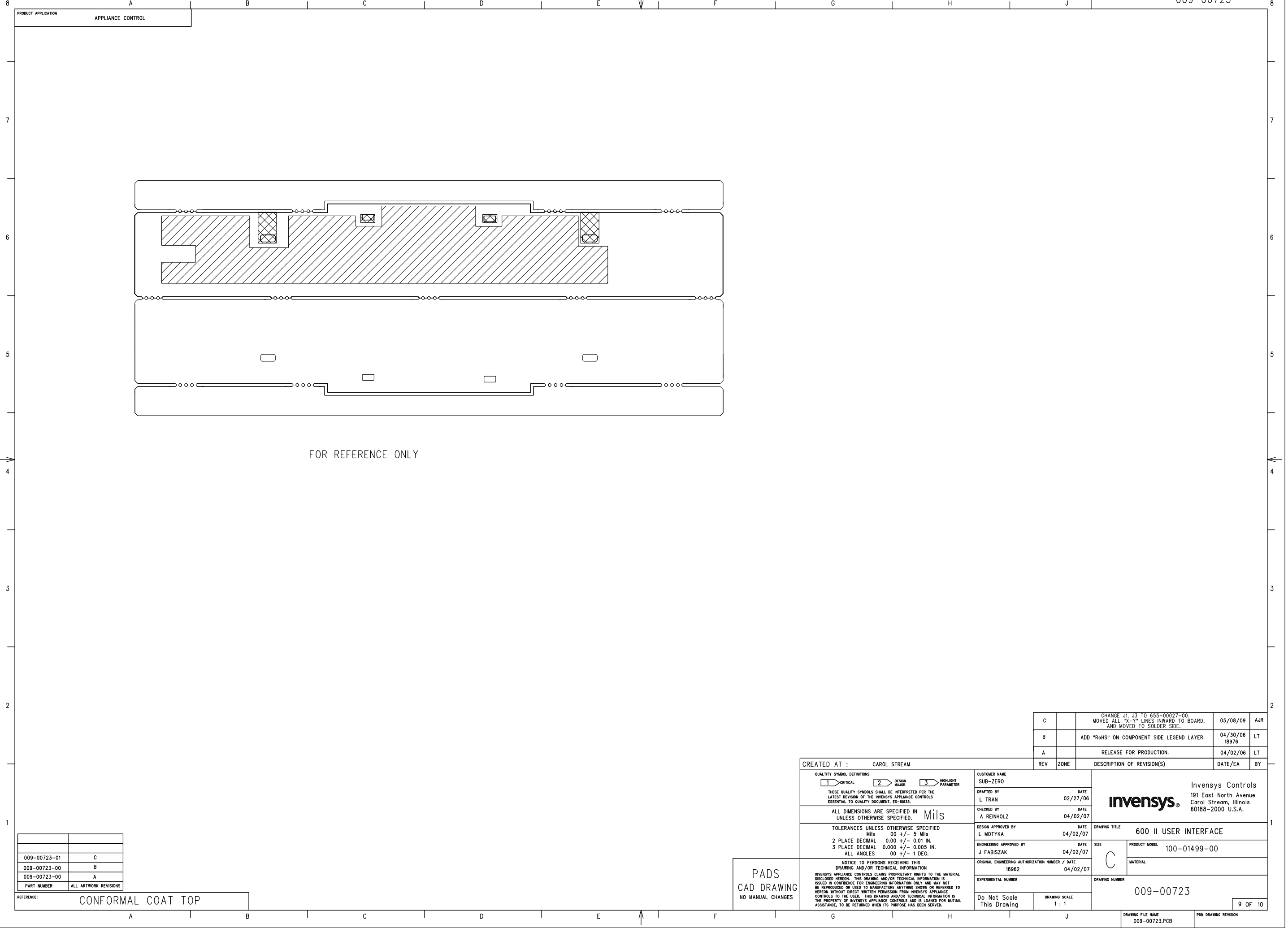
CREATED AT : CAROL STREAM		REV	ZONE	DESCRIPTION OF REVISION(S)	DATE/EA	BY
QUALITY SYMBOL DEFINITIONS						
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CUSTOMER NAME		SUB-ZERO				
DRAFTED BY		L TRAN				
DATE		02/27/06				
CHECKED BY		A REINHOLZ				
DATE		04/02/07				
DESIGN APPROVED BY		L MOTYKA				
DATE		04/02/07				
ENGINEERING APPROVED BY		J FABISZAK				
DATE		04/02/07				
ORIGINAL ENGINEERING AUTHORIZATION NUMBER / DATE		18962 04/02/07				
EXPERIMENTAL NUMBER						
Do Not Scale This Drawing						
DRAWING SCALE		1 : 1				
DRAWING TITLE		600 II USER INTERFACE				
SIZE		C				
PRODUCT MODEL		100-01499-00				
MATERIAL						
DRAWING NUMBER		009-00723				
DRAWING FILE NAME		009-00723.PCB				
PDM DRAWING REVISION		7 OF 10				

C		CHANGE J1, J3 TO 655-00027-00. MOVED ALL "X-Y" LINES INWARD TO BOARD, AND MOVED TO SOLDER SIDE.	05/08/09	AJR
B		ADD "RoHS" ON COMPONENT SIDE LEGEND LAYER.	04/30/06 18976	LT
A		RELEASE FOR PRODUCTION.	04/02/06	LT

Invensys Controls  
191 East North Avenue  
Carol Stream, Illinois  
60188-2000 U.S.A.







009-00723-01	C
009-00723-00	B
009-00723-00	A
PART NUMBER	ALL ARTWORK REVISIONS

REFERENCE: CONFORMAL COAT TOP

PADS  
CAD DRAWING  
NO MANUAL CHANGES

CREATED AT : CAROL STREAM		CUSTOMER NAME SUB-ZERO		<div>Invensys Controls</div> <div>191 East North Avenue Carol Stream, Illinois 60188-2000 U.S.A.</div>	
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ALL DIMENSIONS ARE SPECIFIED IN UNLESS OTHERWISE SPECIFIED. Mils		CHECKED BY A. REINHOLZ	DATE 04/02/07		
TOLERANCES UNLESS OTHERWISE SPECIFIED Mils .00 +/- .5 Mils 2 PLACE DECIMAL 0.00 +/- 0.01 IN. 3 PLACE DECIMAL 0.000 +/- 0.005 IN. ALL ANGLES .00 +/- 1 DEG.		DESIGN APPROVED BY L. MOTYKA	DATE 04/02/07		
NOTICE TO PERSONS RECEIVING THIS DRAWING AND/OR TECHNICAL INFORMATION INVENSYS APPLIANCE CONTROLS CLAIMS PROPRIETARY RIGHTS TO THE MATERIAL DISCLOSED HEREON. THIS DRAWING AND/OR TECHNICAL INFORMATION IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY AND MAY NOT BE REPRODUCED OR USED TO MANUFACTURE ANYTHING SHOWN OR REFERRED TO HEREON WITHOUT DIRECT WRITTEN PERMISSION FROM INVENSYS APPLIANCE CONTROLS TO THE USER. THIS DRAWING AND/OR TECHNICAL INFORMATION IS THE PROPERTY OF INVENSYS APPLIANCE CONTROLS AND IS LOANED FOR MUTUAL ASSISTANCE, TO BE RETURNED WHEN ITS PURPOSE HAS BEEN SERVED.		ENGINEERING APPROVED BY J. FABISZAK	DATE 04/02/07	SIZE C	PRODUCT MODEL 100-01499-00
		ORIGINAL ENGINEERING AUTHORIZATION NUMBER / DATE 18962 04/02/07		MATERIAL	
		EXPERIMENTAL NUMBER		DRAWING NUMBER 009-00723	
		Do Not Scale This Drawing	DRAWING SCALE 1 : 1		9 OF 10

C		CHANGE J1, J3 TO 655-00027-00. MOVED ALL "X-Y" LINES INWARD TO BOARD, AND MOVED TO SOLDER SIDE.	05/08/09	AJR
B		ADD "RoHS" ON COMPONENT SIDE LEGEND LAYER.	04/30/06 18976	LT
A		RELEASE FOR PRODUCTION.	04/02/06	LT
REV	ZONE	DESCRIPTION OF REVISION(S)	DATE/EA	BY

Invensys®

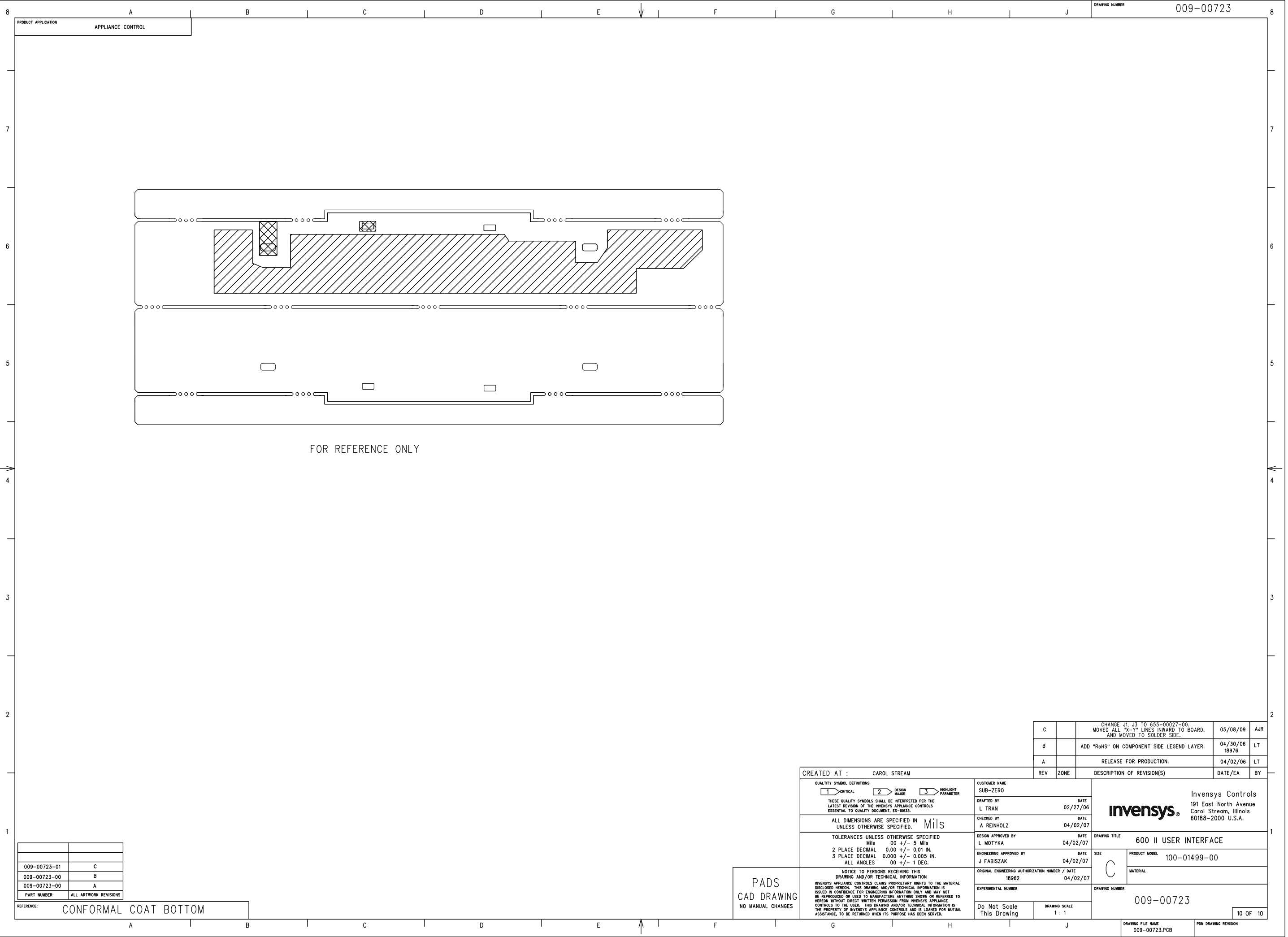
DRAWING TITLE  
600 II USER INTERFACE

PRODUCT MODEL  
100-01499-00

DRAWING NUMBER  
009-00723

DRAWING FILE NAME  
009-00723.PCB

PDW DRAWING REVISION



009-00723-01	C
009-00723-00	B
009-00723-00	A
PART NUMBER	ALL ARTWORK REVISIONS

REFERENCE: CONFORMAL COAT BOTTOM

PADS  
CAD DRAWING  
NO MANUAL CHANGES

CREATED AT : CAROL STREAM		REV		ZONE		DESCRIPTION OF REVISION(S)		DATE/EA		BY	
QUALITY SYMBOL DEFINITIONS <div><div>1</div>CRITICAL</div> <div><div>2</div>DESIGN MAJOR</div> <div><div>3</div>HIGHLIGHT PARAMETER</div> <p>THESE QUALITY SYMBOLS SHALL BE INTERPRETED PER THE LATEST REVISION OF THE INVENSYS APPLIANCE CONTROLS ESSENTIAL TO QUALITY DOCUMENT, ES-10033.</p> <p>ALL DIMENSIONS ARE SPECIFIED IN UNLESS OTHERWISE SPECIFIED.</p> Mils		CUSTOMER NAME SUB-ZERO		DRAFTED BY L. TRAN		DATE 02/27/06		<div>Invensys Controls</div> <div>191 East North Avenue</div> <div>Carol Stream, Illinois</div> <div>60188-2000 U.S.A.</div>			
		CHECKED BY A. REINHOLZ		DATE 04/02/07							
TOLERANCES UNLESS OTHERWISE SPECIFIED Mils 00 +/- 5 MILS 2 PLACE DECIMAL 0.00 +/- 0.01 IN. 3 PLACE DECIMAL 0.000 +/- 0.005 IN. ALL ANGLES 00 +/- 1 DEG.		DESIGN APPROVED BY L. MOTYKA		DATE 04/02/07		DRAWING TITLE 600 II USER INTERFACE					
		ENGINEERING APPROVED BY J. FABISZAK		DATE 04/02/07		SIZE C		PRODUCT MODEL 100-01499-00			
NOTICE TO PERSONS RECEIVING THIS DRAWING AND/OR TECHNICAL INFORMATION INVENSYS APPLIANCE CONTROLS CLAIMS PROPRIETARY RIGHTS TO THE MATERIAL DISCLOSED HEREON. THIS DRAWING AND/OR TECHNICAL INFORMATION IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY AND MAY NOT BE REPRODUCED OR USED TO MANUFACTURE ANYTHING SHOWN OR REFERRED TO HEREON WITHOUT DIRECT WRITTEN PERMISSION FROM INVENSYS APPLIANCE CONTROLS TO THE USER. THIS DRAWING AND/OR TECHNICAL INFORMATION IS THE PROPERTY OF INVENSYS APPLIANCE CONTROLS AND IS LOANED FOR MUTUAL ASSISTANCE, TO BE RETURNED WHEN ITS PURPOSE HAS BEEN SERVED.		ORIGINAL ENGINEERING AUTHORIZATION NUMBER / DATE 18962 04/02/07		DRAWING NUMBER 009-00723							
		EXPERIMENTAL NUMBER									
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						10 OF 10					

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