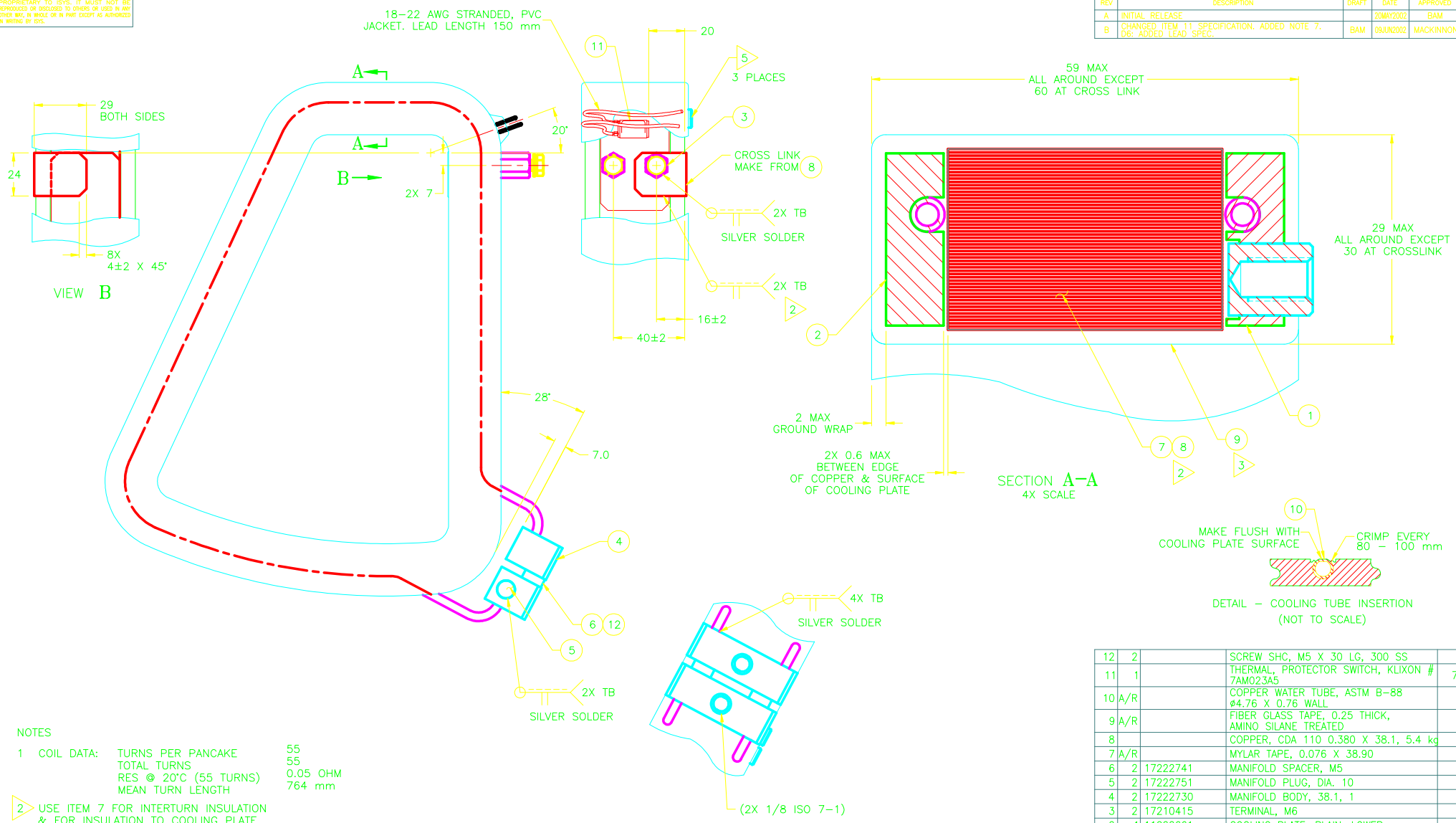
PROPRIETARY
THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION PROPRIETARY TO ISYS. IT MUST NOT BE REPRODUCED OR DISCLOSED TO OTHERS OR USED IN ANY OTHER WAY, IN WHOLE OR IN PART EXCEPT AS AUTHORIZED IN WRITING BY ISYS.

REVISIONS

REV	DESCRIPTION	DRAFT	DATE	APPROVED
A	INITIAL RELEASE		20MAY2002	BAM
B	CHANGED ITEM 11 SPECIFICATION. ADDED NOTE 7. D6: ADDED LEAD SPEC.	BAM	09JUN2002	MACKINNON



NOTES

1 COIL DATA: TURNS PER PANCAKE 55
TOTAL TURNS 55
RES @ 20°C (55 TURNS) 0.05 OHM
MEAN TURN LENGTH 764 mm

2 USE ITEM 7 FOR INTERTURN INSULATION & FOR INSULATION TO COOLING PLATE.

3 AFTER WINDING, WRAP PANCAKES WITH ITEM 9 – HALF LAP 2 PASSES. FIT PANCAKES ON COOLING PLATE, FILL INTERSTITIAL SPACES AND APPLY GROUND WRAP WITH ITEM 9 – HALF LAP 3 TO 4 PASSES. VACUUM VACUUM IMPREGNATE WITH 'ARALDITE F' TO ISYS SPEC. 86210380.

4 DIMENSIONS SHOWN ARE FOR FINISHED, IMPREGNATED COIL.

5 THREADS & MOUNTING SURFACES MUST BE CLEAN & FREE OF EPOXY.

6 VERIFY FINISHED COILS ARE FREE OF INTERTURN SHORTS WITH TRANSFORMER TEST @ 2 V PER TURN MIN. VERIFY THERE ARE NO ELECTRICAL SHORTS BETWEEN COILS AND COOLING PLATES & THERMAL SENSOR AT 500 V.

7 AS APPLICABLE, REMOVE & DISCARD MYLAR SLEEVE OF ITEM 11.

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
12	2		SCREW SHC, M5 X 30 LG, 300 SS	
11	1		THERMAL, PROTECTOR SWITCH, KLIXON # 7AM023A5	7
10	A/R		COPPER WATER TUBE, ASTM B–88 ø4.76 X 0.76 WALL	
9	A/R		FIBER GLASS TAPE, 0.25 THICK, AMINO SILANE TREATED	
8			COPPER, CDA 110 0.380 X 38.1, 5.4 kg	
7	A/R		MYLAR TAPE, 0.076 X 38.90	
6	2	17222741	MANIFOLD SPACER, M5	
5	2	17222751	MANIFOLD PLUG, DIA. 10	
4	2	17222730	MANIFOLD BODY, 38.1, 1	
3	2	17210415	TERMINAL, M6	
2	1	11222661	COOLING PLATE, PLAIN, LOWER	
1	1	11222671	COOLING PLATE, MOUNTING, LOWER	

PARTS LIST

DRAWN BAM DATE 17MAY2002
CHECK DATE
ENGINEERING BAM DATE 17MAY2002

DO NOT SCALE FROM DRAWING
DIMENSIONS & TOLERANCES (UNLESS OTHERWISE SPECIFIED)

LINEAR	mm
X.XXX	±0.03
X.XX	±0.1
X.X	±0.3
X	±1
DEG.	±0.5
FINISH	1.6

THIRD ANGLE PROJECTION

ISYS ION BEAM SYSTEMS, INC.
282 BROKAW ROAD
SANTA CLARA, CA 95050
TEL: (408) 986-8130
FAX: (408) 986-8331

TITLE: COIL ASSEMBLY, LOWER

NEXT ASSY	SYSTEM
11222720	326

SOFTWARE: AUTOCAD 2000

SIZE A1 | DRAWING NO. 11222711 | REV B

SCALE 1:1 | WT 7.9 kg | SHEET 1 OF 1