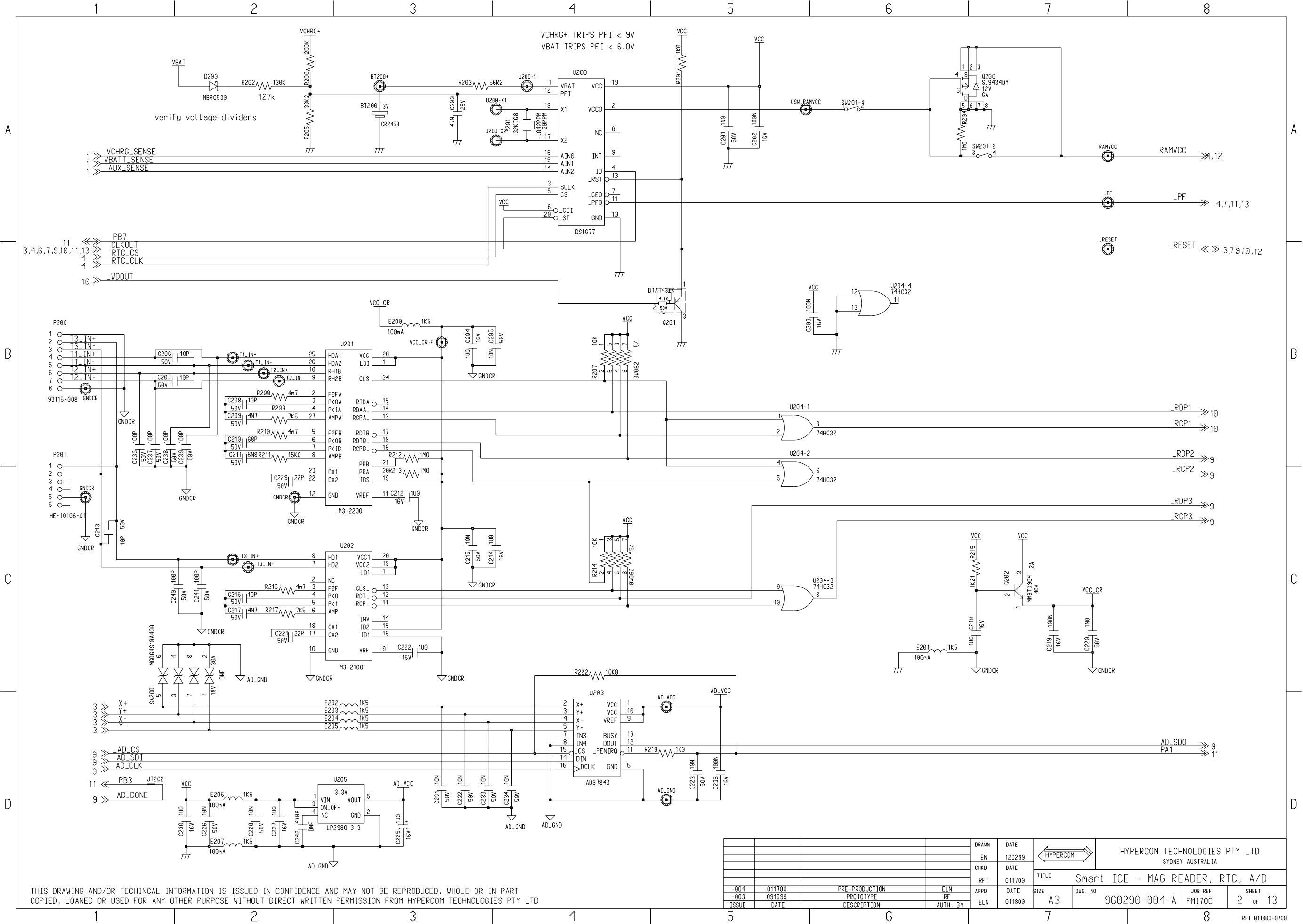




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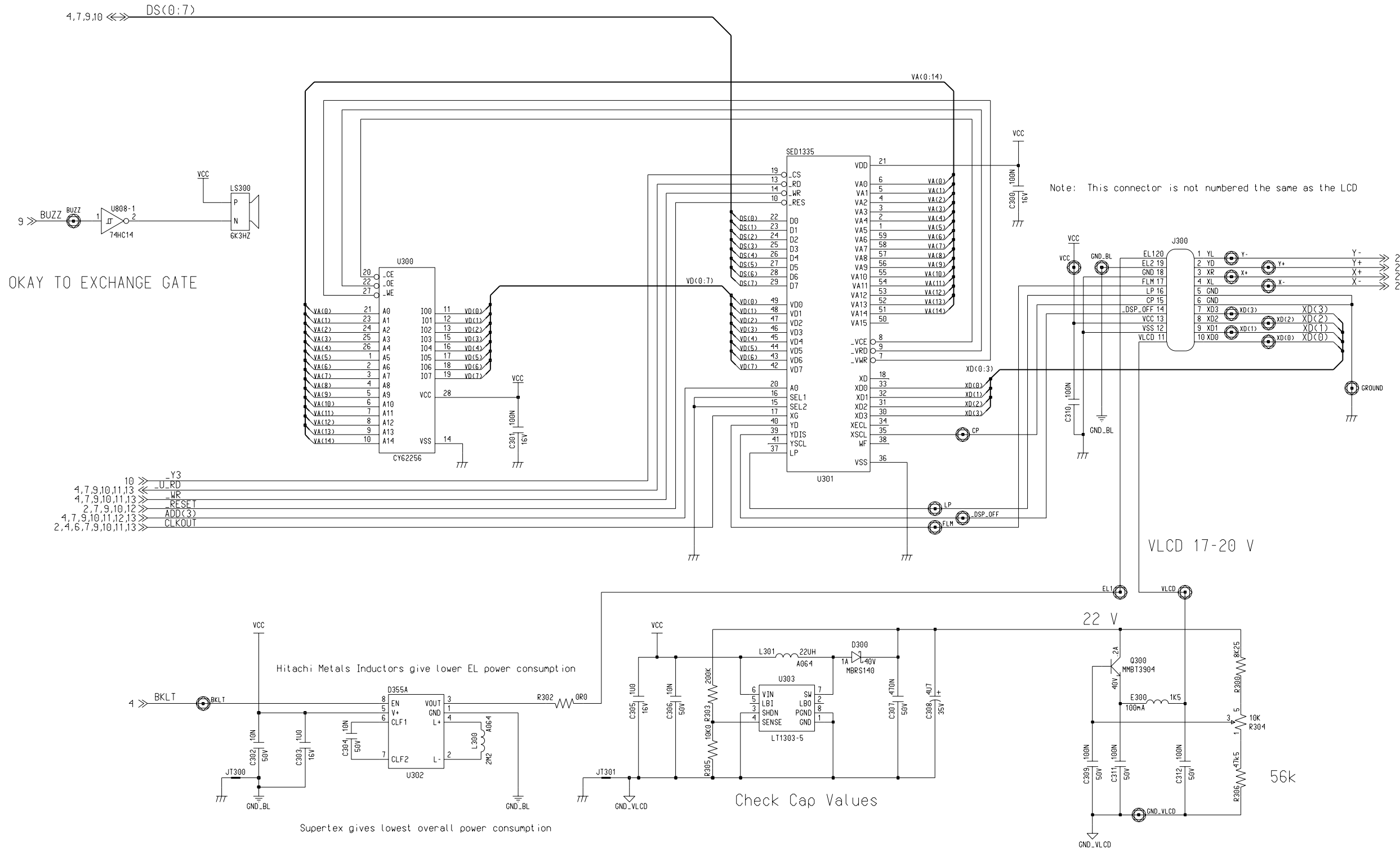
* VCC Connects to U1200 Power Through Diode D1200

T 011800-0715



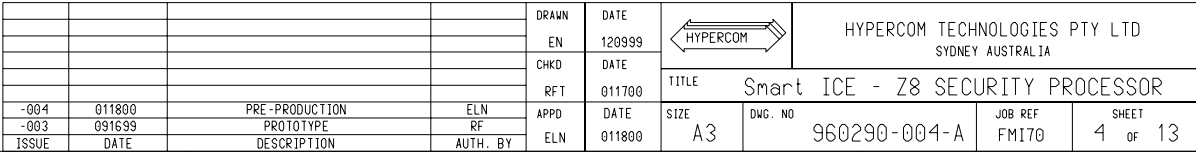
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				DRAWN	DATE	HYPERCOM TECHNOLOGIES PTY LTD SYDNEY AUSTRALIA	
				EN	120299		
				CHKD	DATE		
				RFT	011700		
-004	011700	PRE-PRODUCTION	ELN	APPD	DATE	SIZE	DWG. NO
-003	091639	PROTOTYPE	RF	ELN	011800	A3	960290-004-A
ISSUE	DATE	DESCRIPTION	AUTH. BY				JOB REF
							FM170C
							SHEET
							2 of 13

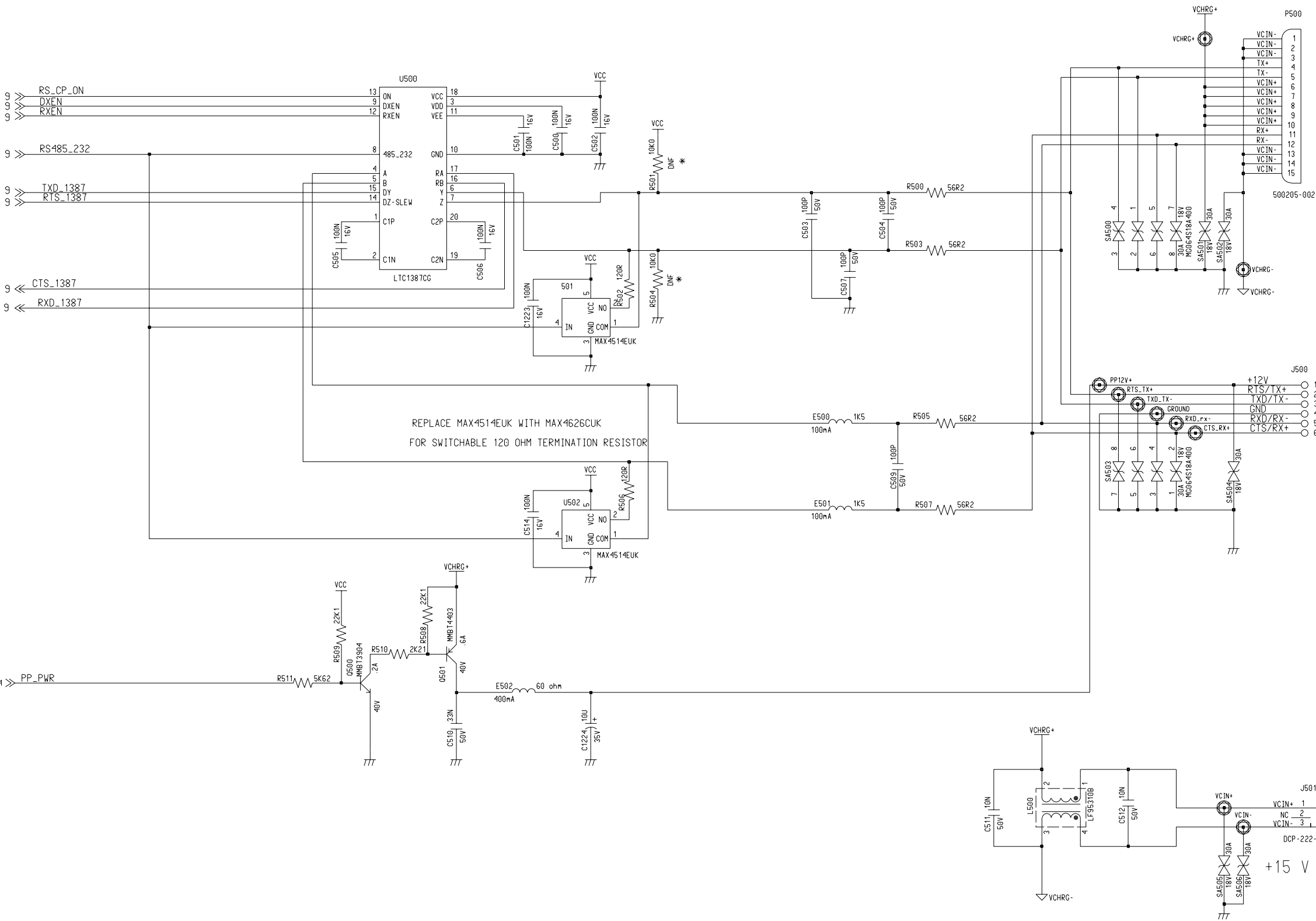


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				DRAWN	DATE	HYPERCOM		HYPERCOM TECHNOLOGIES PTY LTD SYDNEY AUSTRALIA		
				EN	120999					
				CHKD	DATE					
				RFT	011700	TITLE		Smart ICE - LCD CONTROLLER/EL BKLIGHT/+24V PS		
-004	011800	PRE-PRODUCTION	ELN	APPD	DATE	SIZE	DWG. NO	JOB REF	SHEET	
-003	091699	PROTOTYPE	RF	ELN	011800	A3	960290-004-A	FM170	3	of 13
ISSUE	DATE	DESCRIPTION	AUTH. BY							



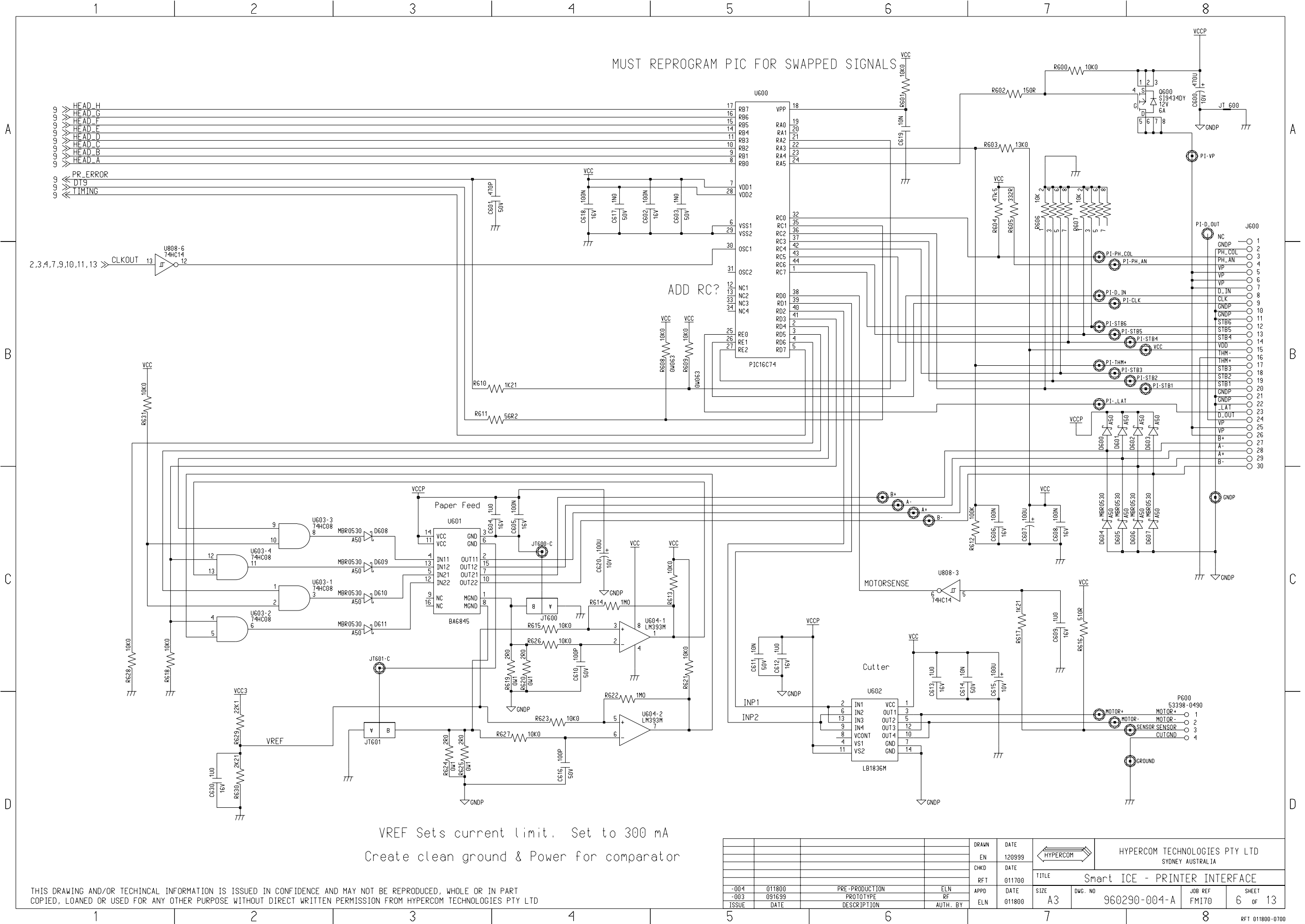
RFT 011800-0700



* SEE BOM FOR PLACEMENT

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				DRAWN	DATE			HYPERCOM TECHNOLOGIES PTY LTD SYDNEY AUSTRALIA	
				EN	121399				
				CHKD	DATE	TITLE Smart ICE - RS 485, RS 232			
				RFT	011700				
-004	011800	PRE-PRODUCTION	ELN	APPD	DATE	SIZE A3	DWG. NO	JOB REF	SHEET
-003	091699	PROTOTYPE	RF	ELN	011800			FMI70	OF 13
ISSUE	DATE	DESCRIPTION	AUTH. BY						



VREF Sets current limit. Set to 300 mA
Create clean ground & Power for comparator

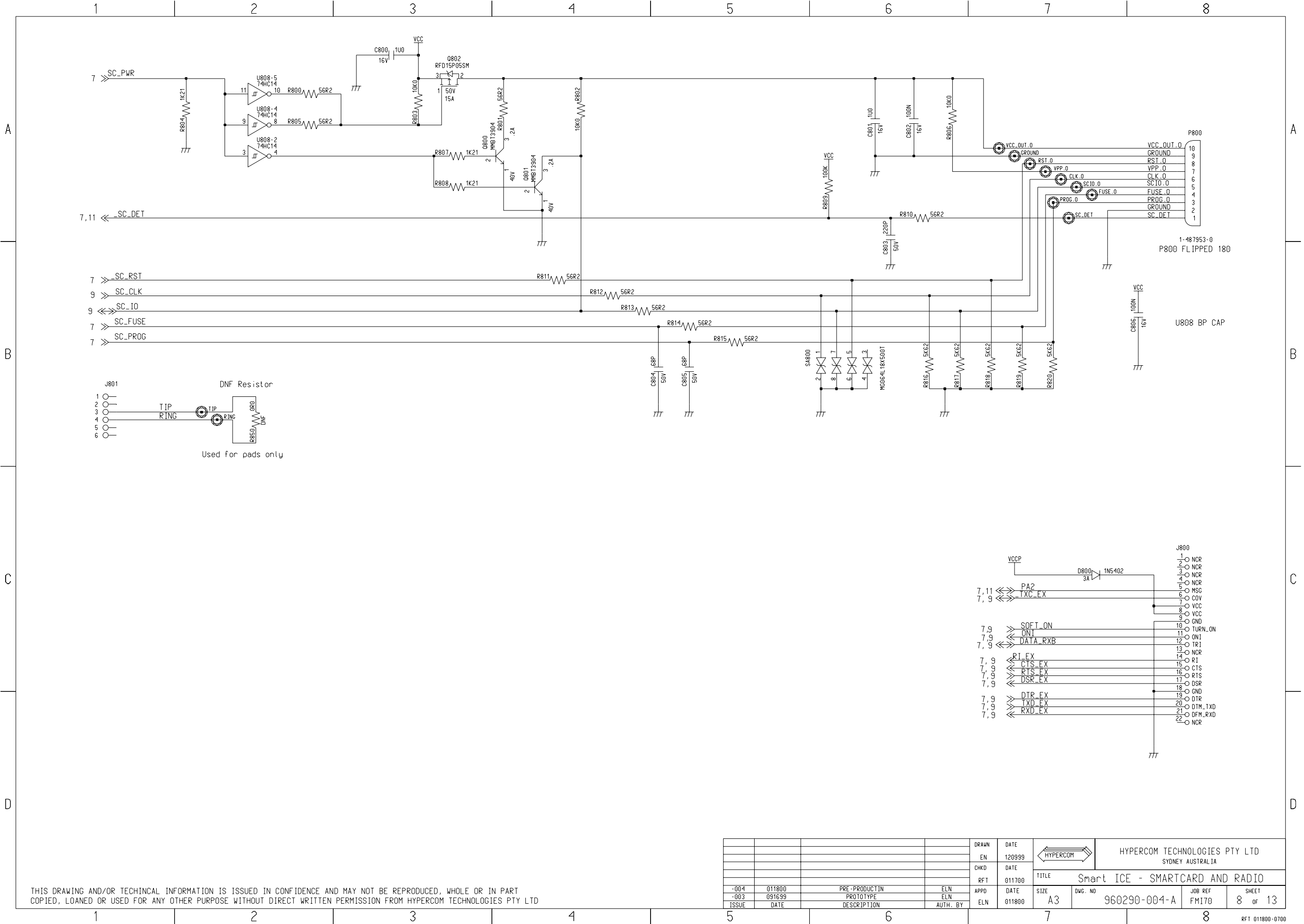
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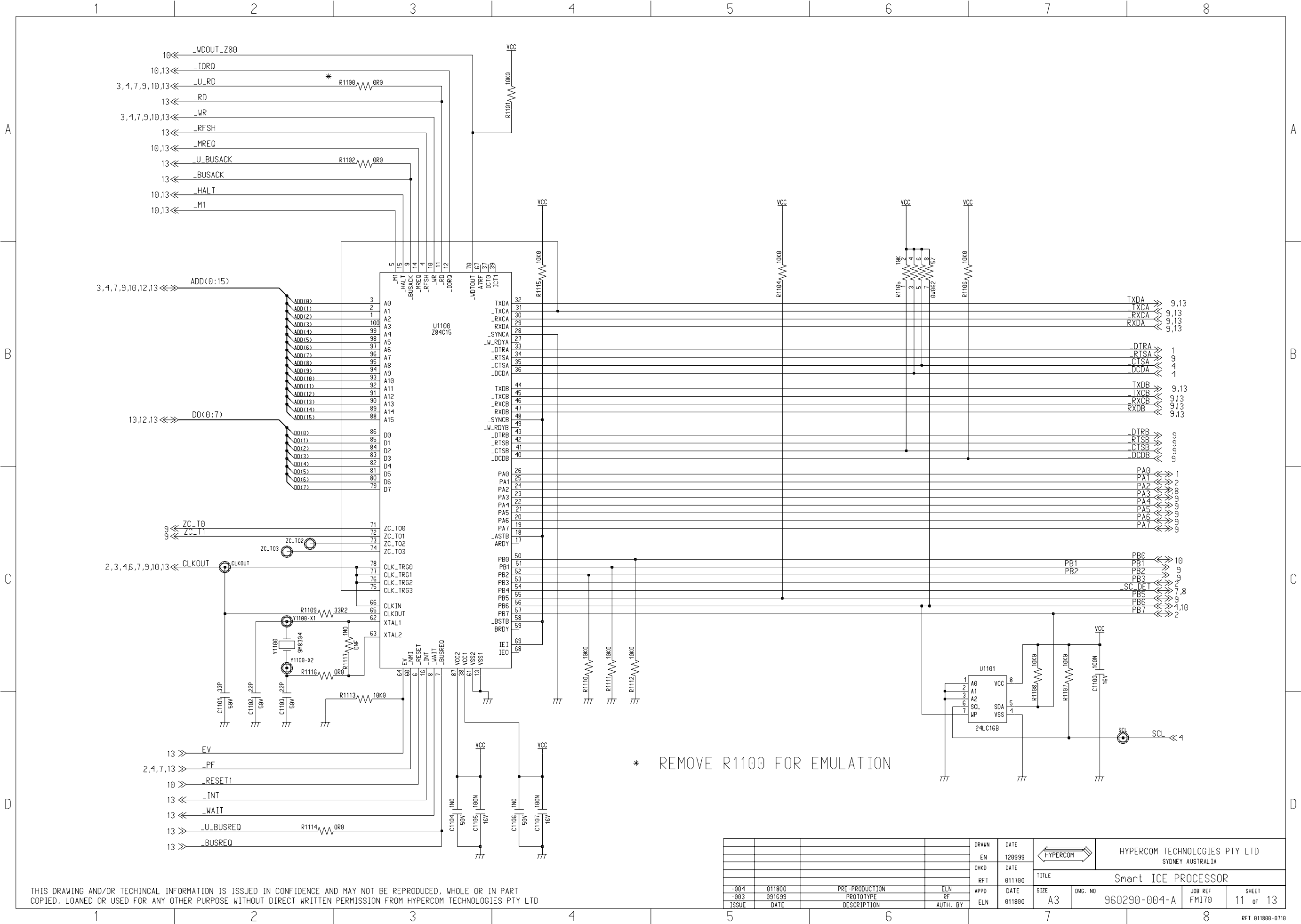
						DRAWN	DATE			HYPERCOM TECHNOLOGIES PTY LTD SYDNEY AUSTRALIA		
						EN	120999					
						CHKD	DATE					
						RFT	011700			TITLE Smart ICE - PRINTER INTERFACE		
-004	011800	PRE-PRODUCTION	ELN			APPD	DATE	SIZE	DWG. NO	JOB REF	SHEET	
-003	091699	PROTOTYPE	RF			ELN	011800	A3	960290-004-A	FMI70	6 of 13	
ISSUE	DATE	DESCRIPTION	AUTH. BY									



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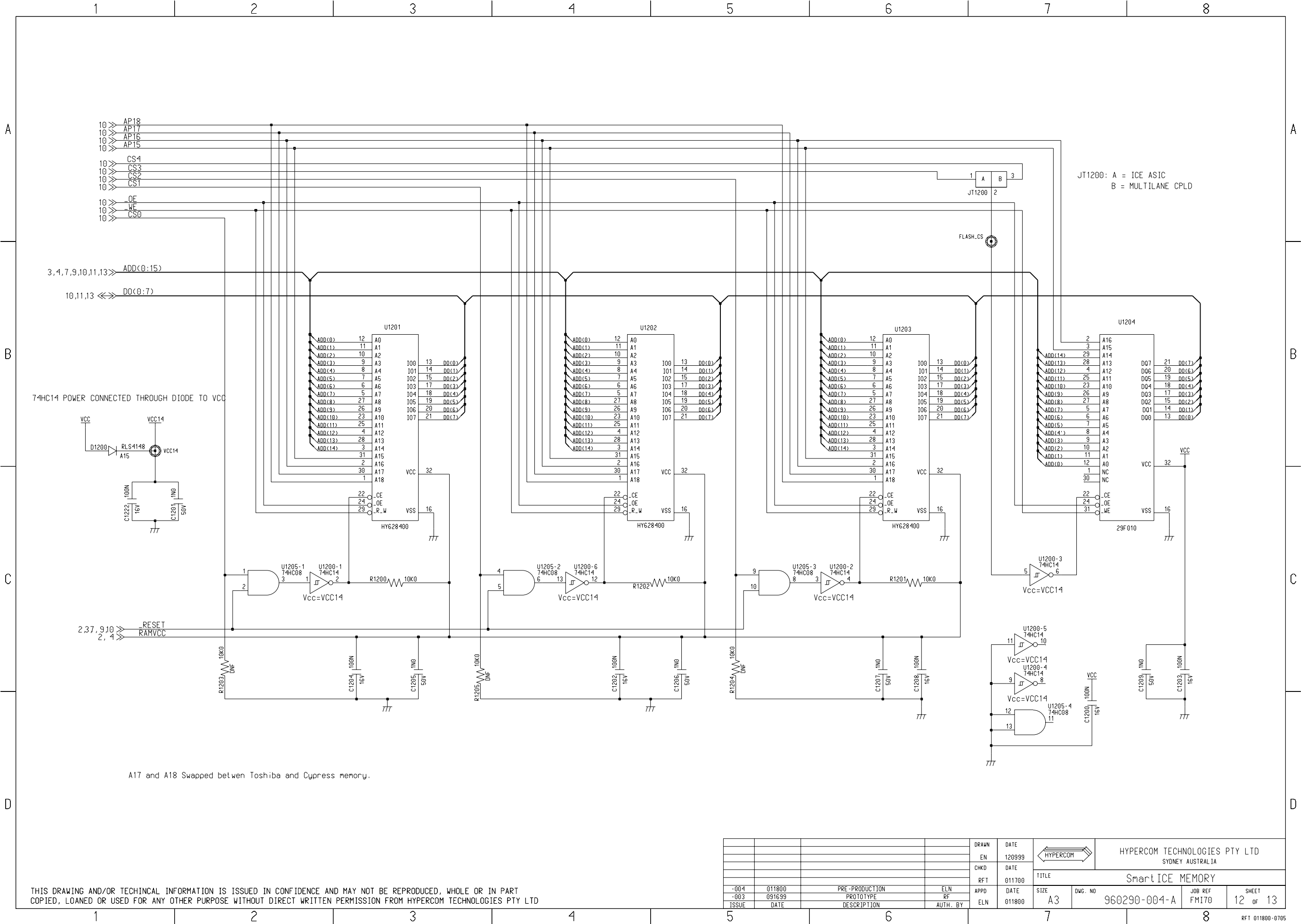
RFT 011800-0700

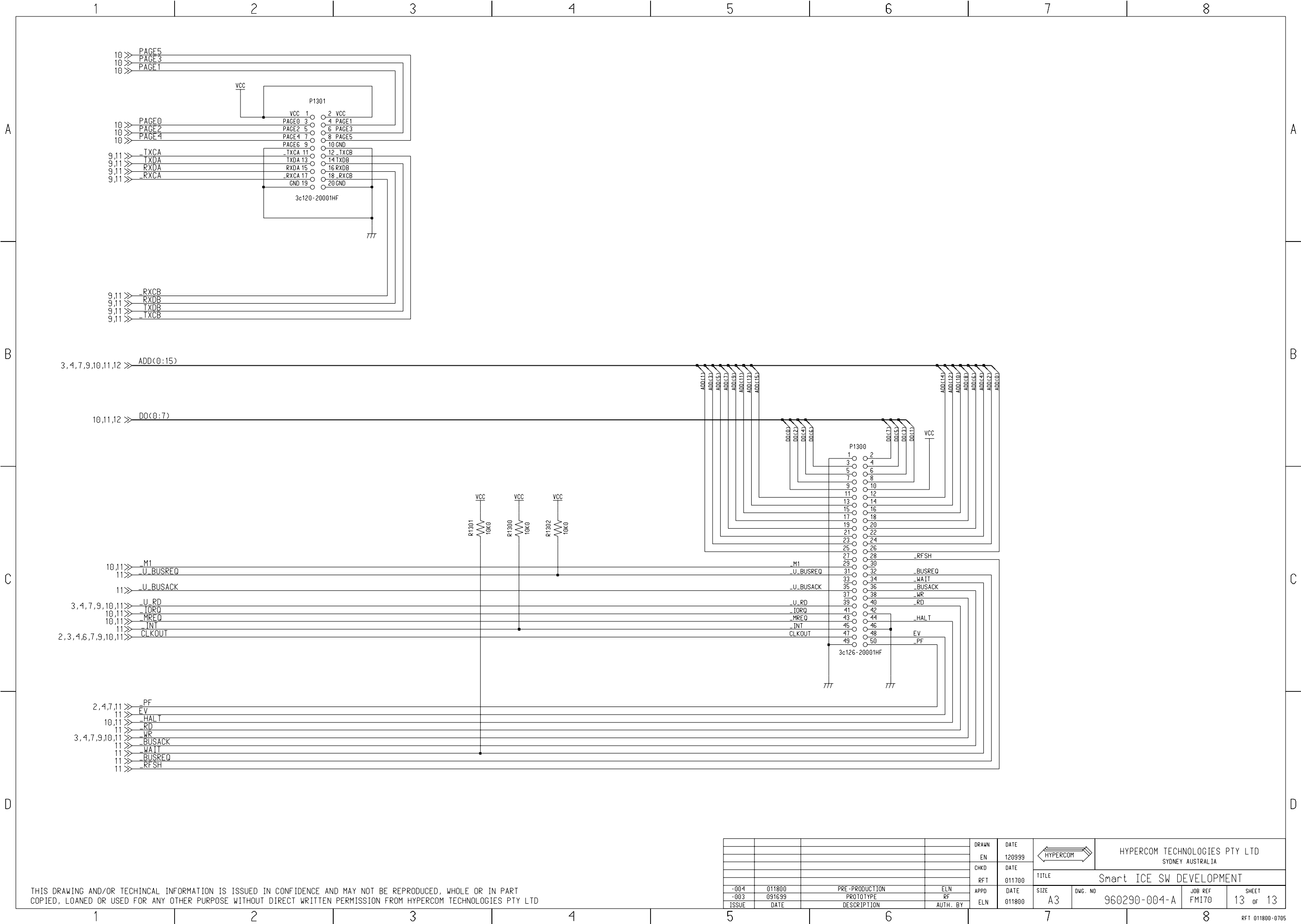




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				DRAWN	DATE	HYPERCOM		HYPERCOM TECHNOLOGIES PTY LTD SYDNEY AUSTRALIA			
				EN	120999						
				CHKD	DATE						
				RFT	011700			Smart ICE PROCESSOR			
-004	011800	PRE-PRODUCTION	ELN	APPD	DATE	SIZE	DWG. NO	JOB REF	SHEET		
-003	091699	PROTOTYPE	RF	ELN	011800	A3	960290-004-A	FMI70	11	OF	13
ISSUE	DATE	DESCRIPTION	AUTH. BY								

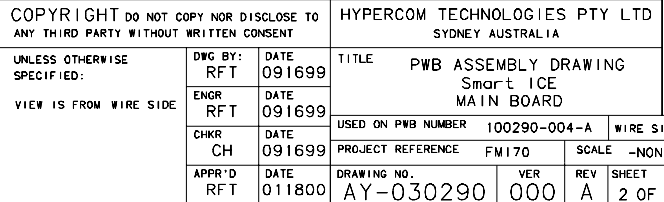


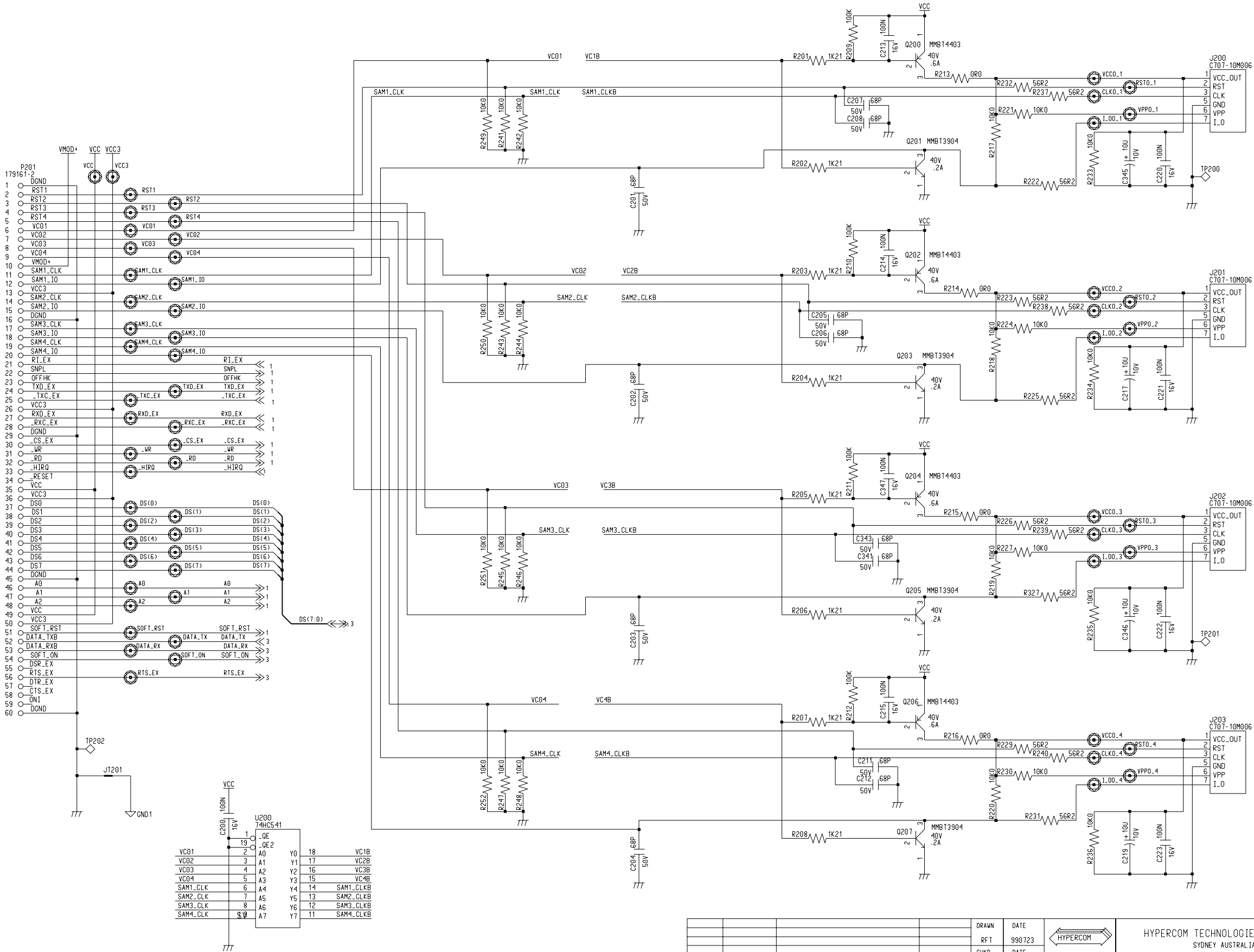


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					DRAWN	DATE			HYPERCOM TECHNOLOGIES PTY LTD SYDNEY AUSTRALIA		
					EN	120999					
					CHKD	DATE					
					RFT	011700	TITLE Smart ICE SW DEVELOPMENT				
-004	011800	PRE-PRODUCTION	ELN	APPD	DATE	SIZE	DWG. NO	JOB REF	SHEET		
-003	091699	PROTOTYPE	RF	ELN	011800	A3	960290-004-A	FMI70	13 OF 13		
ISSUE	DATE	DESCRIPTION	AUTH. BY								

REVISION						
REV	DATE	ECO	JREF	COMMENTS	CHKD	APPD
A	091699	-003		PROTOTYPE	CH	RF
A	011800	-004		PROTOTYPE CLEANUP/PRODUCTION	EN	RF

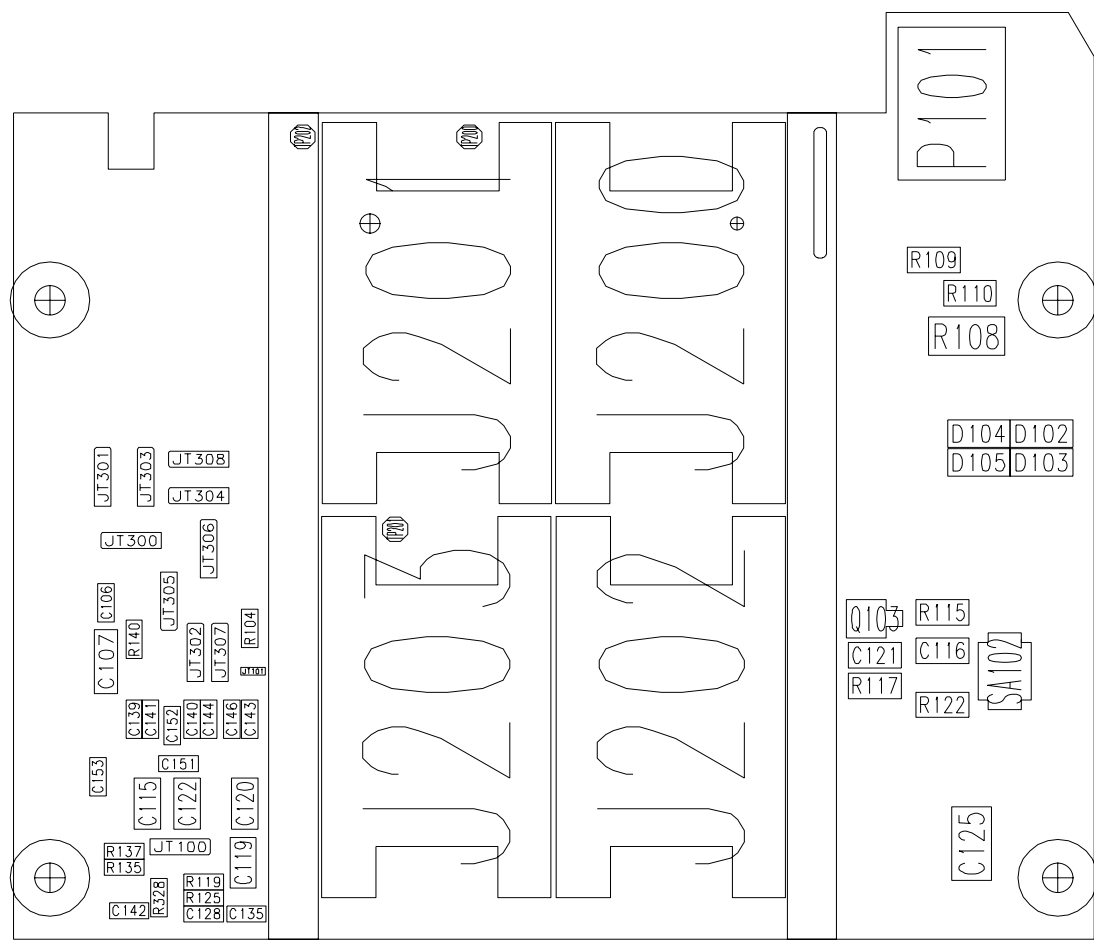




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					RFT	990723					
					CHKD	DATE	TITLE SMART ICE SAM				
					RF / SP	123099					
-003	112999	PRE-PRODUCTION			APPD	DATE	SIZE	DWG. NO	JOB REF	SHEET	
-002	112999	PRE-PRODUCTION		-			A3	960342-003-A	FMT70	2	OF 3
-001	0801299	PROTOTYPE		TBA							
ISSUE	DATE	DESCRIPTION		AUTH. BY							

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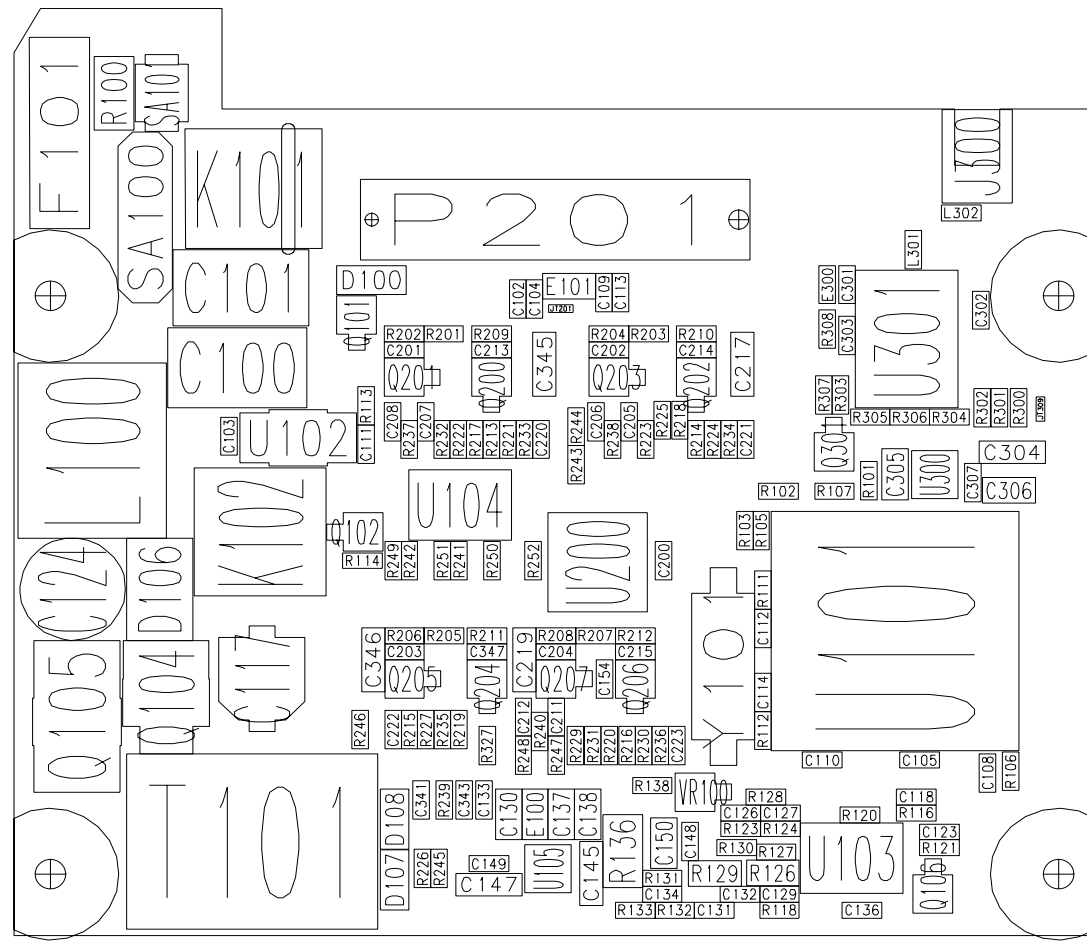
REVISION					
REV	DATE	ECO	JREF	COMMENTS	CHKD APPD
A	120799	-	-	PROTOTYPE	CH EN



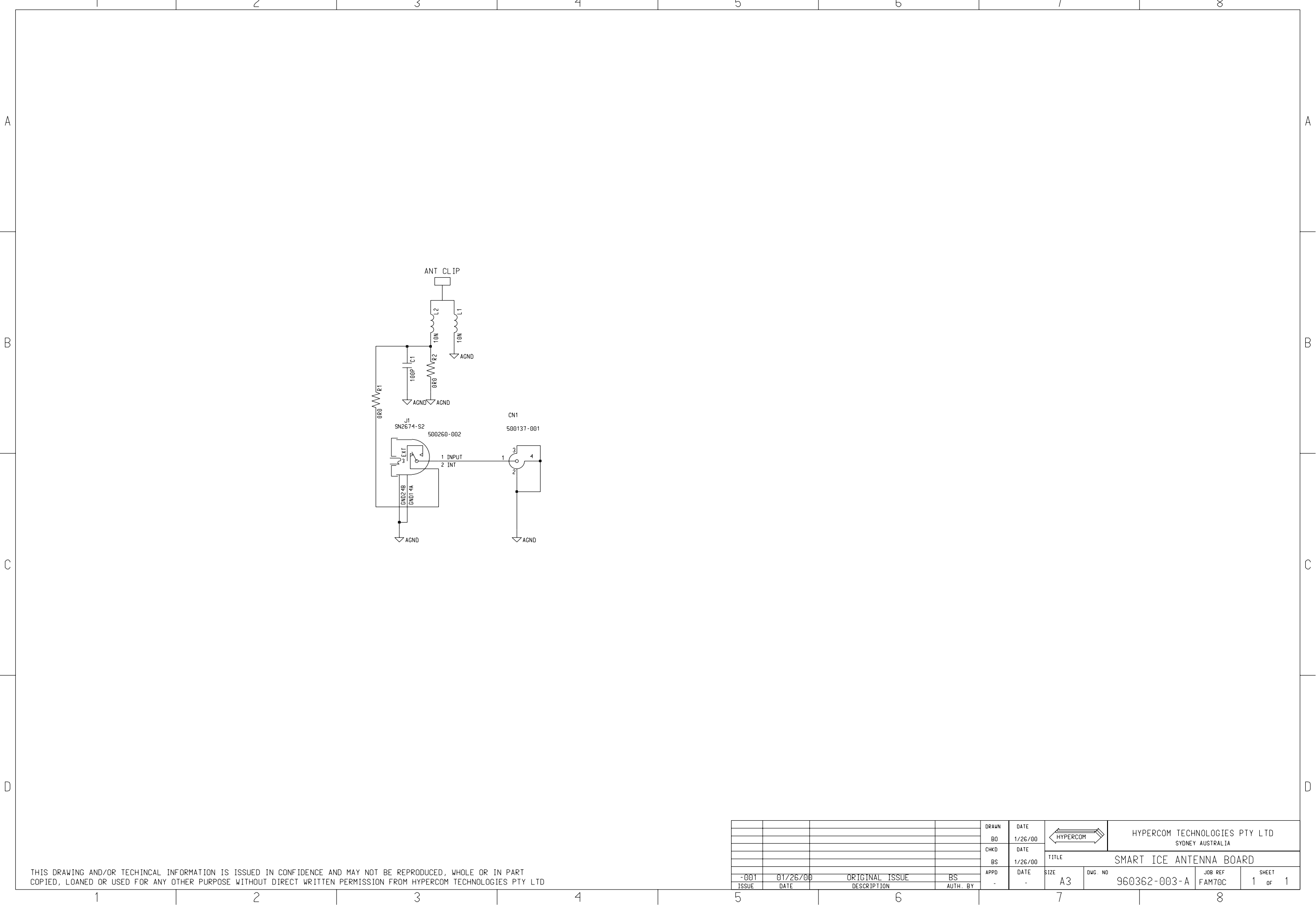
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UNLESS OTHERWISE SPECIFIED: VIEW IS FROM COMP SIDE	ENG BY:	JJK	DATE	083199	TITLE PWB ASSEMBLY DRAWING MINI ICE
	ENG'D	RF	DATE	083199	
	CHK'D	CH	DATE	083199	
	APPR'D		DATE		
USED ON PWB NUMBER			100342-003-A	COMP SIDE	
PROJECT REFERENCE			FMT70	SCALE	-NONE-
DRAWING NO.			AY-030342	VER	000
				REV	A
				SHEET	1 OF 2

NOTES:

REVISION					
REV	DATE	ECO	JREF	COMMENTS	CHKD APPD
A	120799	-	-	PROTOTYPE	CH EN

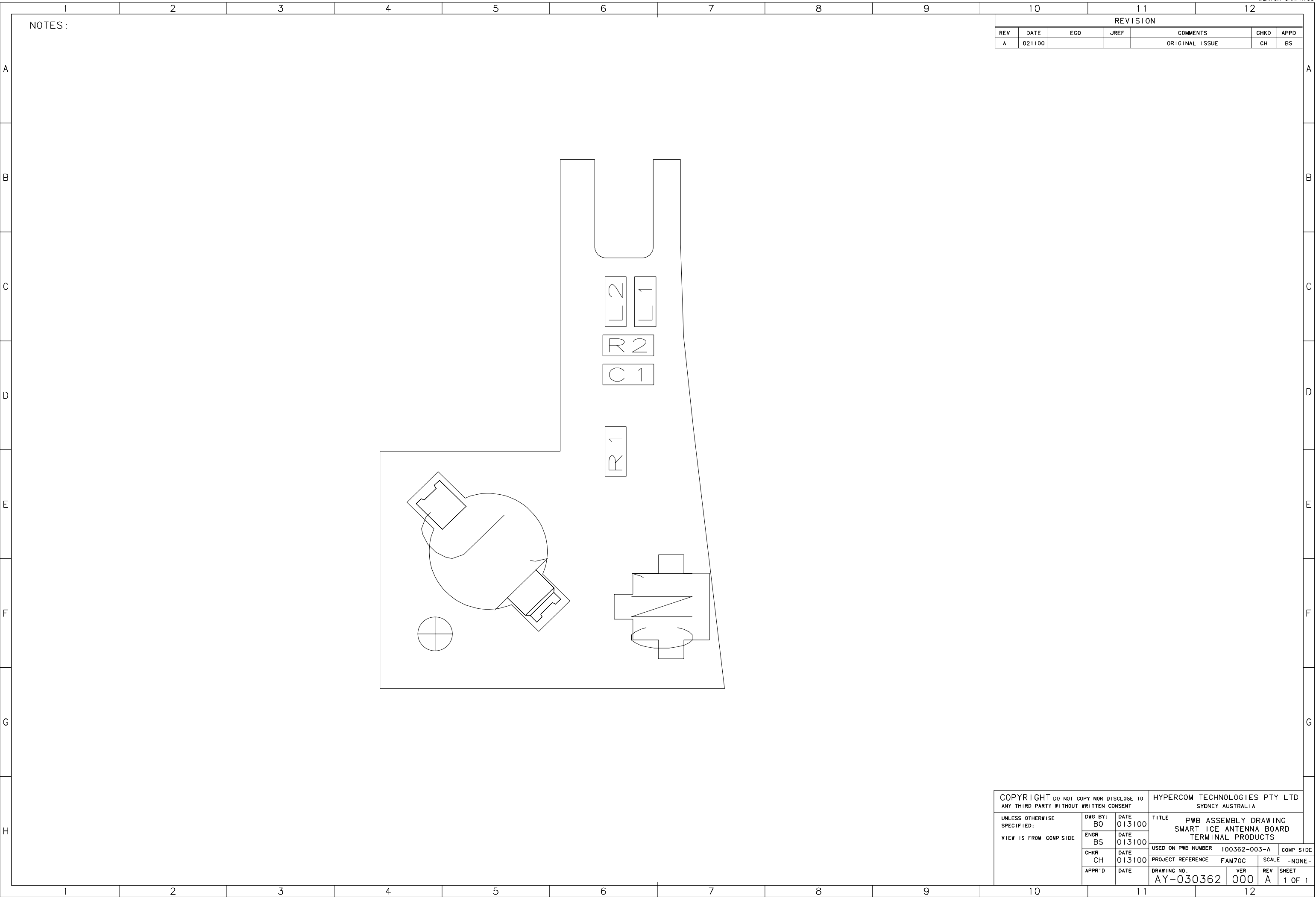


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UNLESS OTHERWISE SPECIFIED: VIEW IS FROM WIRE SIDE	DWG BY:	DATE	TITLE PWB ASSEMBLY DRAWING MINI ICE				
	JJK	08.3.199					
	ENGR	DATE	USED ON PWB NUMBER 100342-003-A WIRE SIDE				
	RF	08.3.199					
CH	DATE	PROJECT REFERENCE		FMT 70	SCALE		-NONE-
	08.3.199	AY-030342		000	VER REV SHEET		
	APPR'D	DATE	DRAWING NO.		VER	REV SHEET	
		AY-030342		000	A 2 OF 2		



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				DRAWN	DATE			HYPERCOM TECHNOLOGIES PTY LTD SYDNEY AUSTRALIA					
				BO	1/26/00								
				CHKD	DATE	TITLE							
				BS	1/26/00								
				APPD	DATE	SIZE	DWG. NO	JOB REF	SHEET				
-001	01/26/00	ORIGINAL ISSUE	BS	-	-	A3	960362-003-A	FAM70C	1	OF 1			
ISSUE	DATE	DESCRIPTION	AUTH. BY										



NOTES:

REVISION						
REV	DATE	ECO	JREF	COMMENTS		CHKD APPD
A	021100			ORIGINAL ISSUE		CH BS

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UNLESS OTHERWISE SPECIFIED: VIEW IS FROM COMP SIDE	DWG BY: BO	DATE 013100	TITLE PWB ASSEMBLY DRAWING SMART ICE ANTENNA BOARD TERMINAL PRODUCTS				
	ENGR BS	DATE 013100					
	CHKR CH	DATE 013100	USED ON PWB NUMBER		100362-003-A	COMP SIDE	-NONE-
	APPR'D	DATE	PROJECT REFERENCE		FAM70C	SCALE	-NONE-
			DRAWING NO. AY-030362		VER 000	REV A	SHEET 1 OF 1