

REVISIONS

REV	DESCRIPTION	DATE	APPROVAL
A	RELEASE PER ECO 93-0587	5-9-83	<i>[Signature]</i>

NOTES:

1. ALL RESISTOR VALUES ARE IN OHMS.
2. UNLESS OTHERWISE SPECIFIED:
 - A. ALL RESISTORS ARE 1/4 WATT, 5%.
 - B. ALL CAPACITOR VALUES ARE SHOWN IN MICROFARADS

VMIC
Monteville, Alabama 35803-3300
VME Microsystems International Corporation

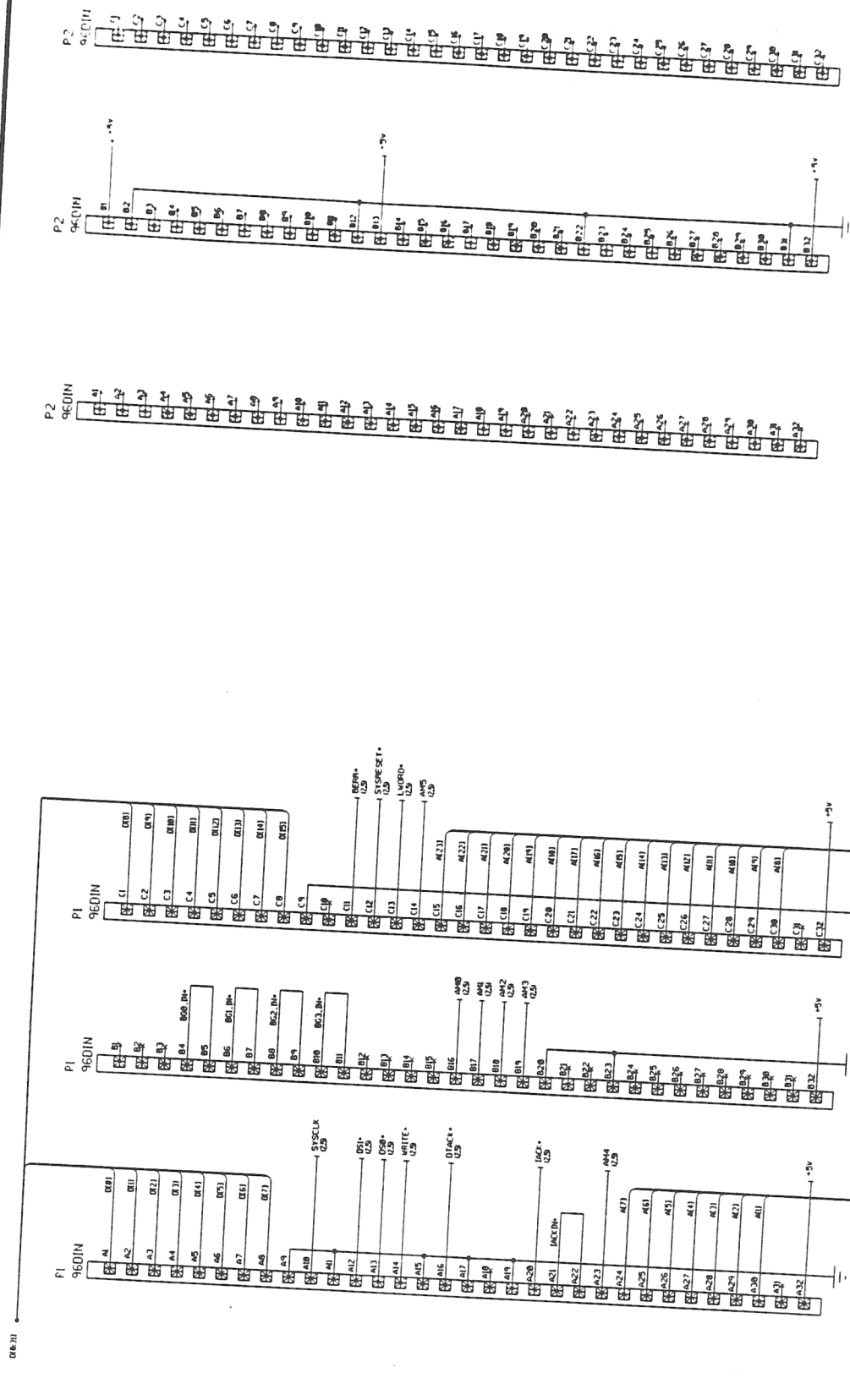
SIGNATURES	DATE
DAVID SMITH	3/13/82
PROJ. ENGR.	11/9/82
ELC. ENGR.	11/9/82
ELC. ENGR.	11/9/82

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INTERNATIONAL CORPORATION. IT IS TO BE
CONTROLLED BY THE PROJECT ENGINEER.
NO PARTS OR MATERIALS ARE TO BE
FURNISHED OR USED IN THE FABRICATION
OF THIS PRODUCT WITHOUT THE WRITTEN
APPROVAL OF THE PROJECT ENGINEER.

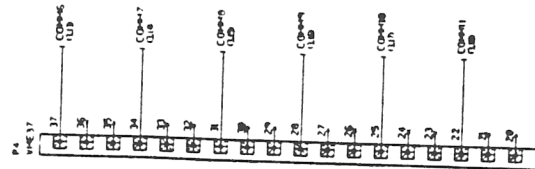
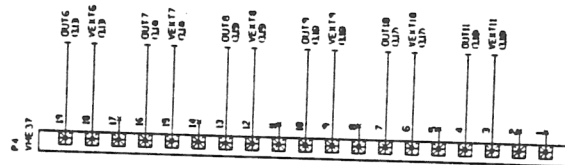
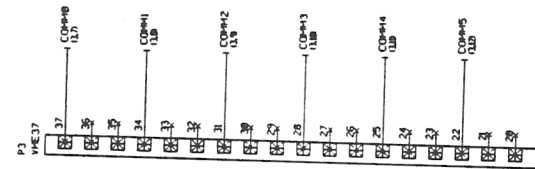
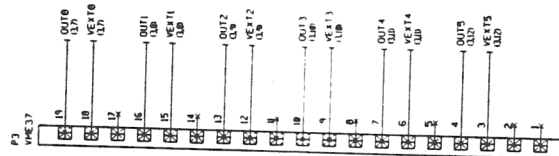
VMVME - 4150 SCHEMATIC

141-004150-000

1

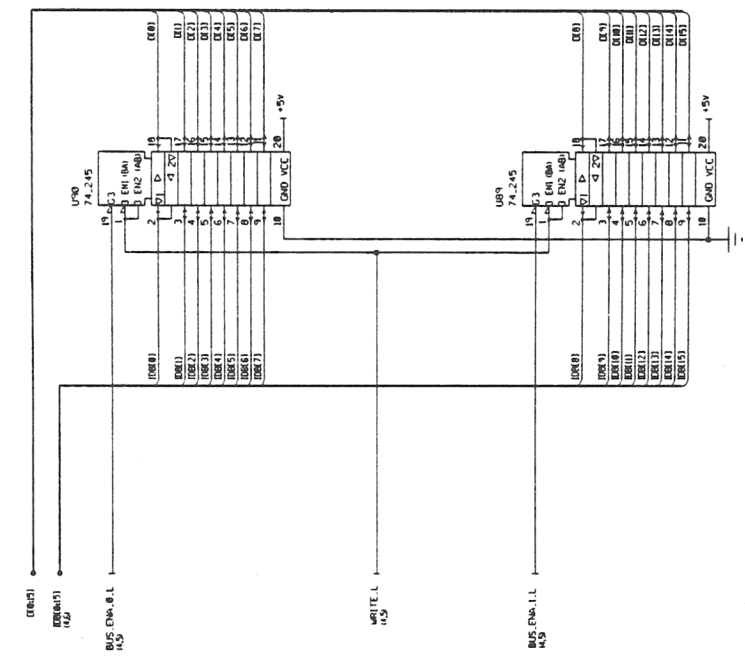


VASIC Huntsville, Alabama 35893-3808 VME Microsystems International Corporation PHONE 256/344-1111		DATE NONE	ORDER NO. 08PH5	ORDER NO. 141-004150-000
C. Murata 7-27-93		PAGE 2		

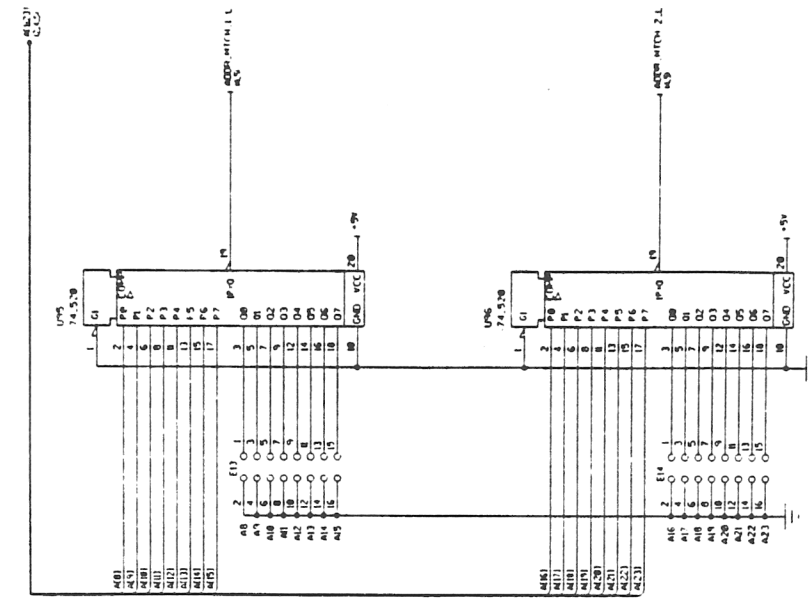


VMIC Huntsville, Alabama 35893-3308 VME Microsystems International Corporation Phone: 205/833-1111 Telex: 154150-0000		SITE B	COMP. NO. 08PH5	DOC. NO. 141-004150-000
REVISION C-Master 7-29-93		NAME NONE	PAGE 3	

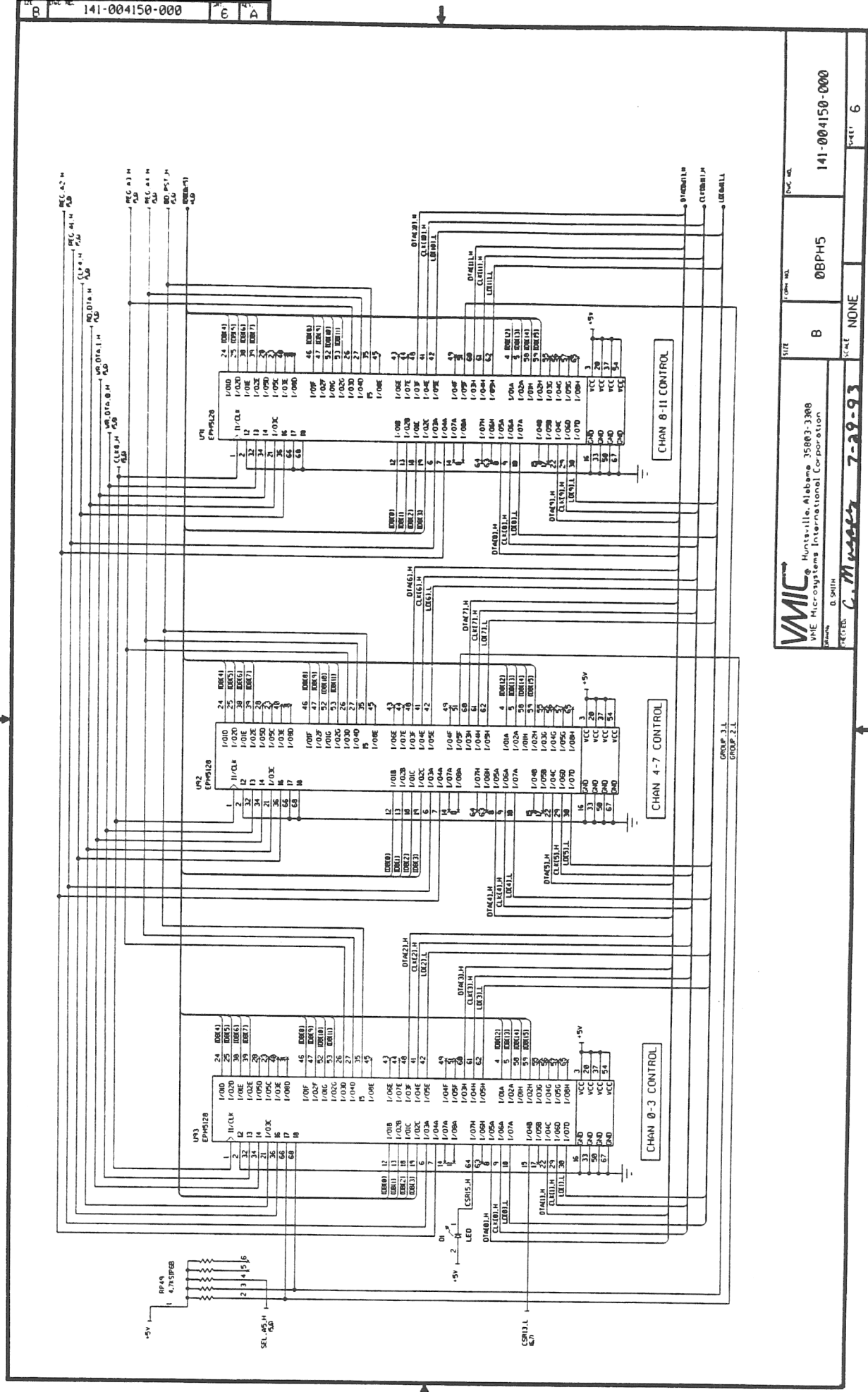
DATA TRANSCEIVERS



ADDRESS SELECT



VMIC Huntsville, Alabama 35893-3304 VME Microsystems International Corporation Phone: 205/944-1000 Telex: 9-270000		SIZE B	COM. NO. 08PH5	DOC. NO. 141-004150-000
REV. 7-29-93		SCALE NONE	SHEET 4	4

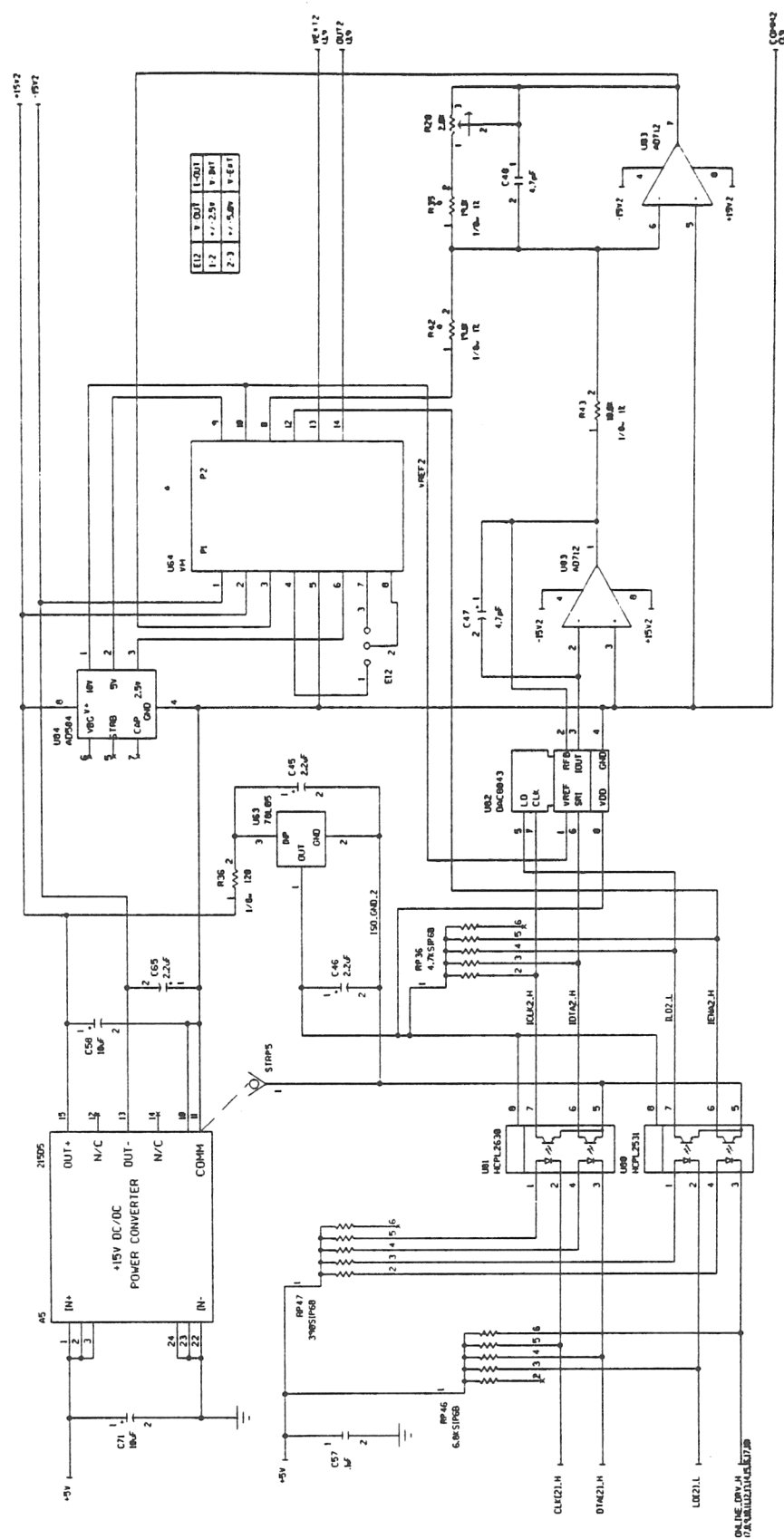


VMIC Huntsville, Alabama 35893-3308 VME Microsystems International Corporation D. SMITH		SIZE B	NAME 08PH5	DATE 141-004150-000
C. M. M... 7-29-93		SCALE NONE	SHEET 6	OF 6

141-004150-000



RECEIVED: MAY 1 1963 OFFICE OF THE DIRECTOR, NATL. BUREAU OF STANDARDS



THIS PART IS OPTION DEPENDENT. REFER TO SEPARATE PARTS LIST FOR APPLICATION AND VALUE.

VMIC INCORPORATED Huntsville, Alabama 35803-3308
VME Microsystems International Corporation

0 CHITM

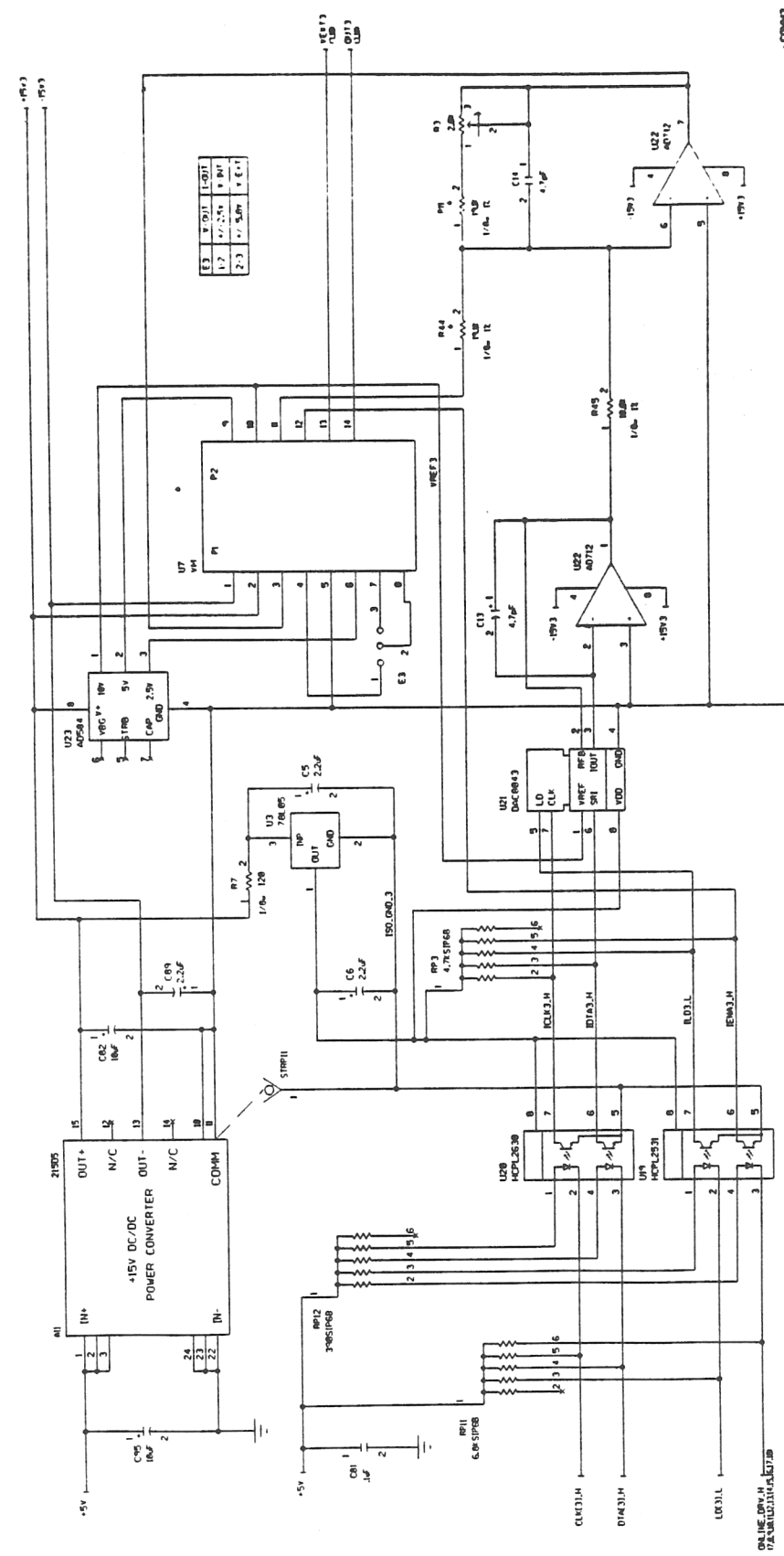
7-29-93

SCALE NONE

[illegible]

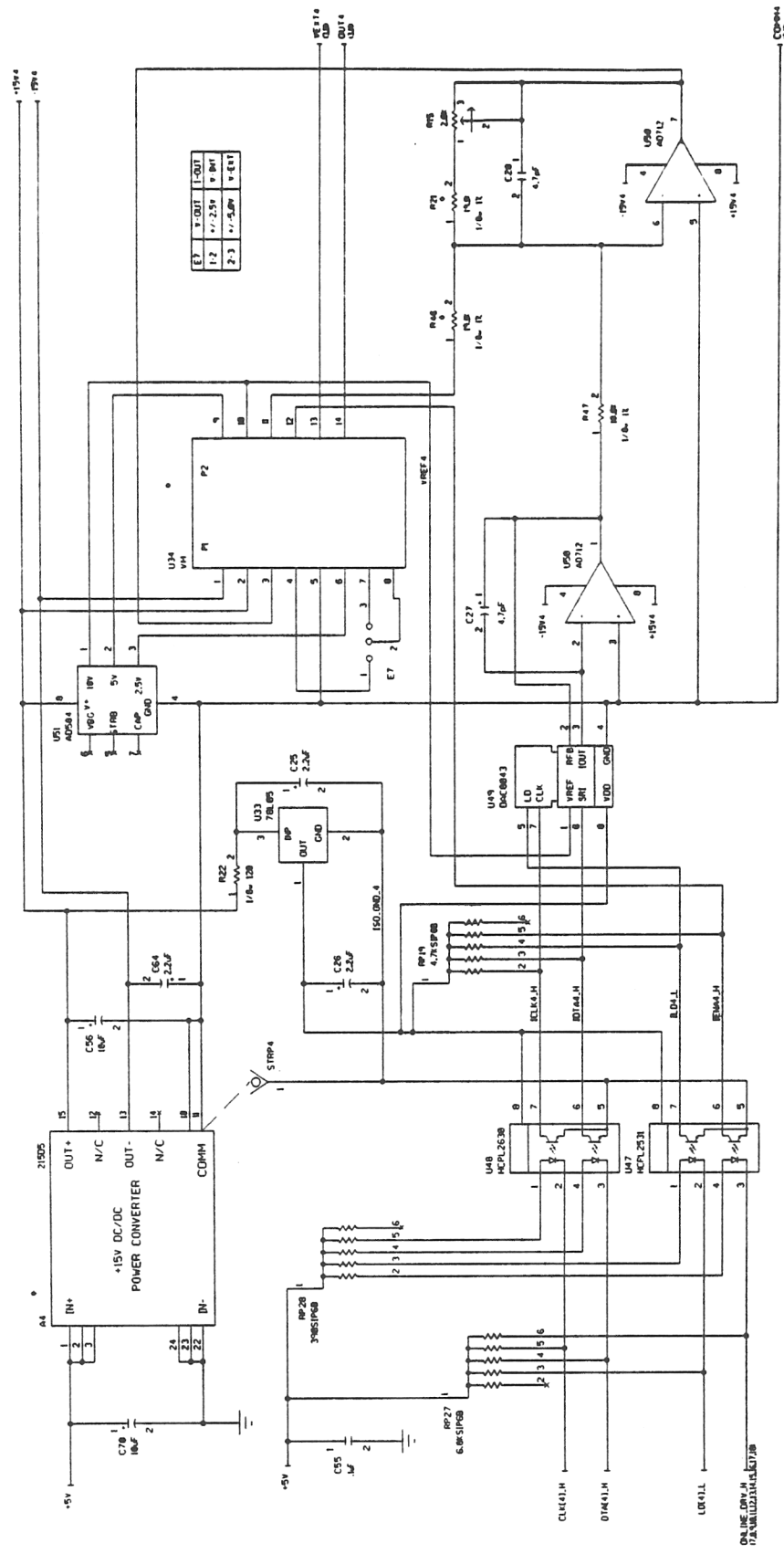
1

6, 12a



* THIS PART IS OPTION DEPENDENT. REFER TO SEPARATE PARTS LIST FOR APPLICATION AND VALUE.

VME		Huntsville, Alabama 35893-1308		VME Microsystems International Corporation	
Part No.	141-004150-000	Rev.	0.001	Scale	NONE
Sheet	10	Channel	3	Output	Channel 3



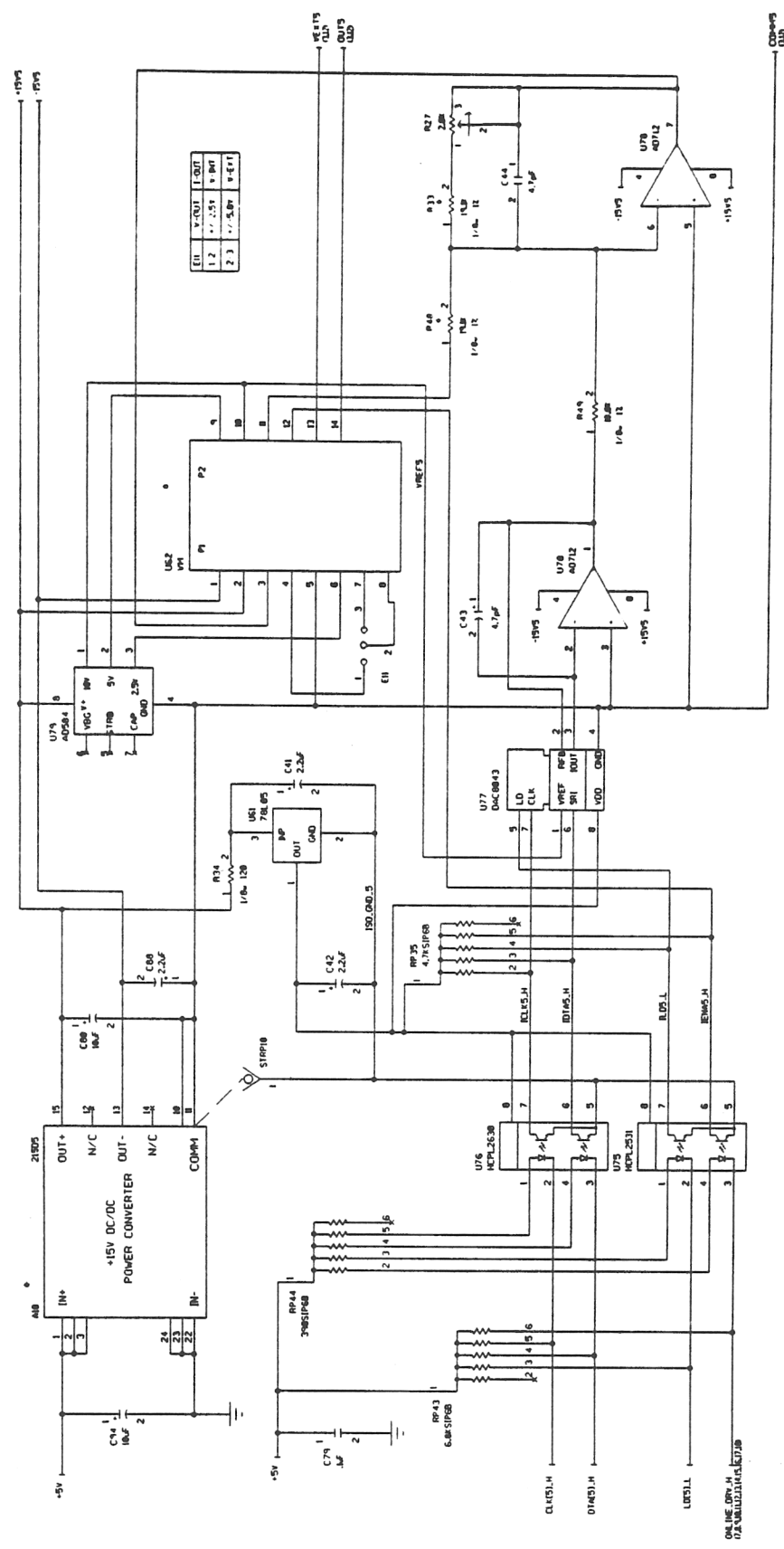
INJ-A	AGT-10	6-2
IND-A	452-10	2-1
IND-1	4-OUT	43

* THIS PART IS OPTION DEPENDENT. REFER TO SEPARATE PARTS LIST FOR APPLICATION AND VALUE.

VMIC
 Huntsville, Alabama 35893-3308
 VME Microsystems International Corporation
 D. Smith

DATE: **7-29-93**
 SIZE: **B**
 PART: **141-004150-000**
 SCALE: **NONE**
 SHEET: **11**

OUTPUT CHANNEL: **4**

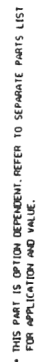


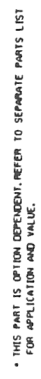
* THIS PART IS OPTION DEPENDENT. REFER TO SEPARATE PARTS LIST FOR APPLICATION AND VALUE.

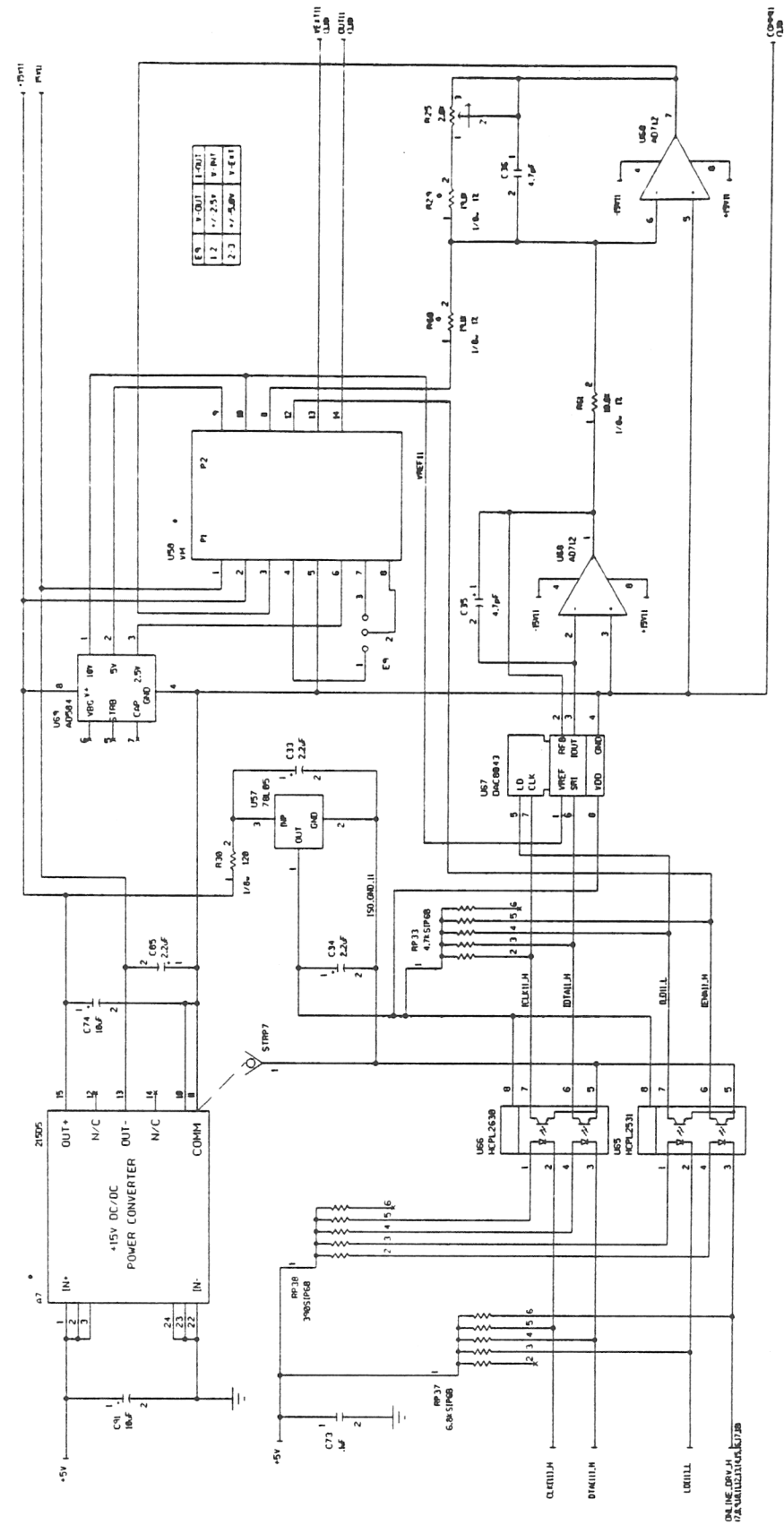
VMEIC Huntsville, Alabama 35893-3308 VME Microsystems International Corporation		SIZE B	DATE 12	OUTPUT CHANNEL 5
DESIGN 7-29-93	REV 1	NAME NONE	141-004150-000	
D. SHIN		SHEET 12		





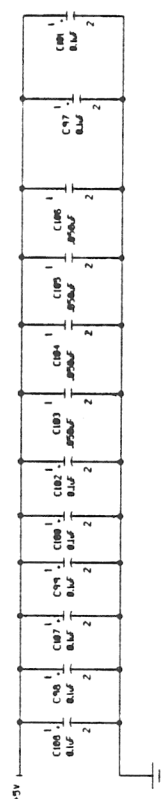






* THIS PART IS OPTION DEPENDENT. REFER TO SEPARATE PARTS LIST FOR APPLICATION AND VALUE.

VME		OUTPUT CHANNEL II	
Huntsville, Alabama 35893-3308		Doc. No.	
VME Microsystems International Corporation		B	
0.0111		NONE	
7-29-93		18	
141-004150-000		08PH5	



VMIC Huntsville, Alabama 35893-3308 VME Microsystems International Corporation Drawing: 0-00114		SIZE B	Q-CONT NO. 08PH5	DOC NO. 141-004150-000
REVISION 7-29-93 C. M. M.		SCALE NONE	SHEET 19 OF 19	

NOTES:

1. FOR SCHEMATIC DIAGRAM SEE 141-004150-000.
2. FOR TEST PROCEDURE SEE 510-004150-000.

REVISION
STATUS
OF 332

A

REV

A

DESCRIPTION

RELEASE PER ECO 93-0587

DATE

8-9-93

APPROVED

[Signature]

SIZE

A

DWG NO

132-004150-000

SH

1

REV

A

REVISIONS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON:
2 PL. DECIMALS ±
3 PL. DECIMALS ±
ANGLES ±
FRACTIONS ±

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FACTURE OR SALE OF ITEMS WITH-
OUT WRITTEN PERMISSION.

SIGNATURES

DRAWN: E. JORY

PROJ. ENG. *[Signature]*

ENG. MGR. *[Signature]*

PROD.: *[Signature]*

Q.A.: *[Signature]*

DATE

7/28/93

8-9-93

8-9-93

8-11-93

8-11-93

SIZE

A

FSCM NO.

OBPH5

DWG NO.

132-004150-000

SCALE

NONE

SHEET

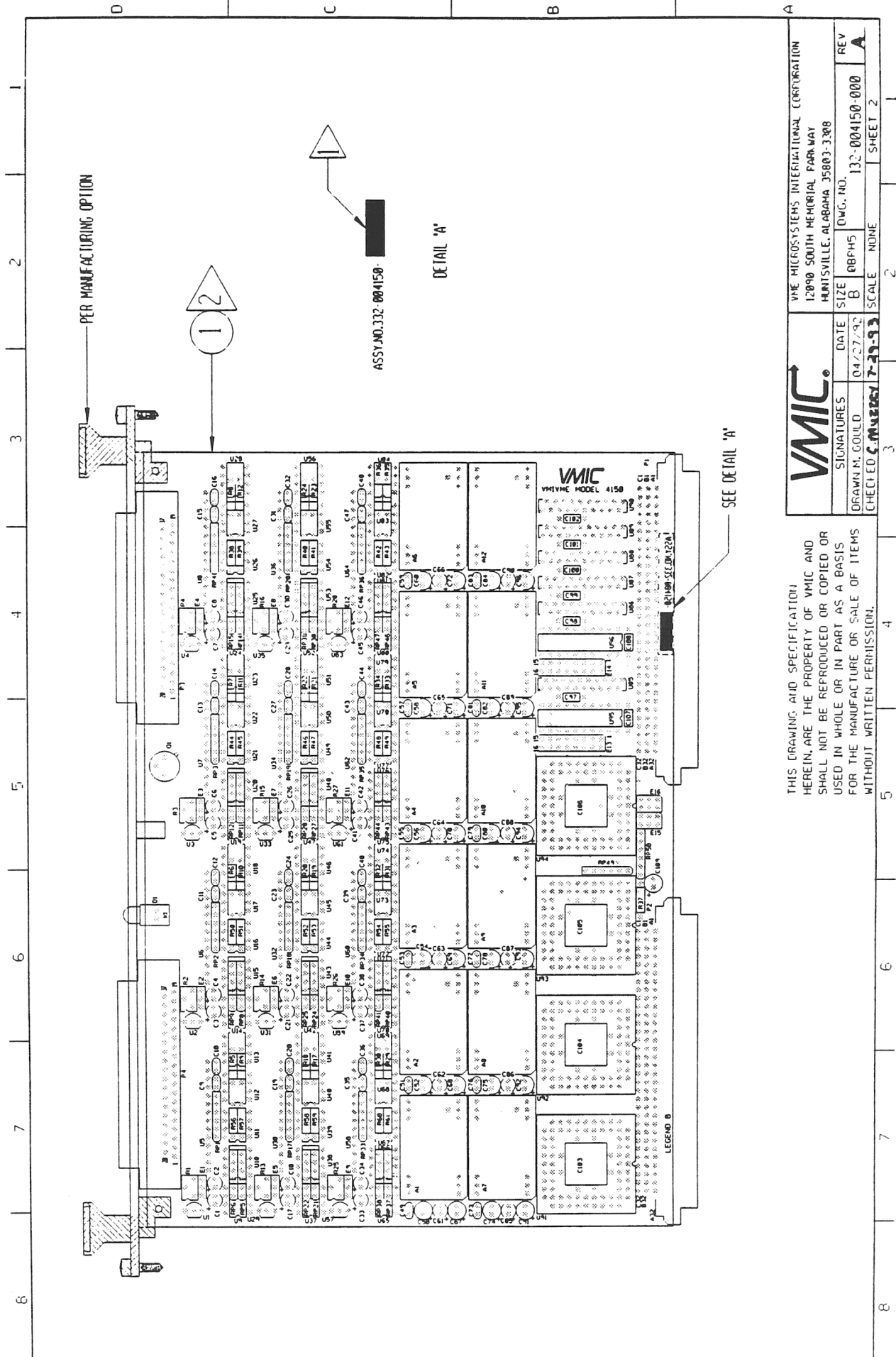
1 OF 12

ASSEMBLY DRAWING

VMIVME-4150

VMIC® HUNTSVILLE, ALABAMA 35803-3308

VME MICROSYSTEMS INTERNATIONAL CORPORATION



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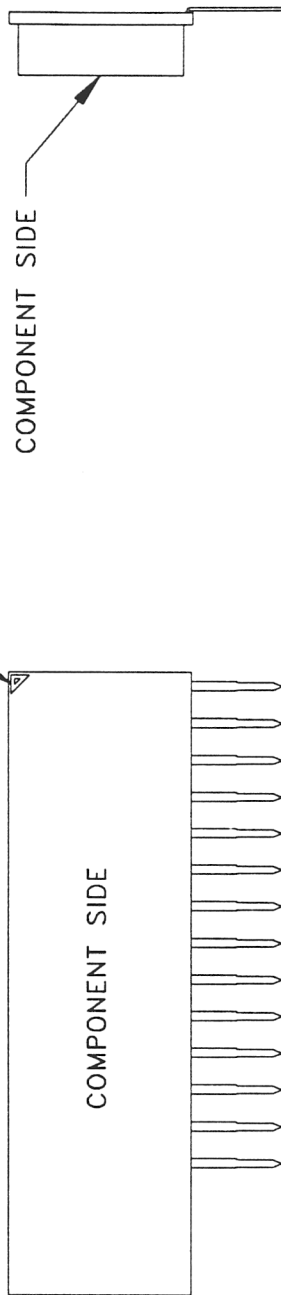


VME MICROSYSTEMS INTERNATIONAL CORPORATION
12040 SOUTH MEMORIAL PARKWAY
HUNTSVILLE, ALABAMA 35893-3308

SIGNATURES	DATE	SIZE	DWG. NO.	REV
DRAWN BY: COULD	04/27/92	B	08PH5	A
CHECKED: C. MURPHY	7-29-93		132-004150-000	
		SCALE	NONE	SHEET 2

SIZE	DWG NO	SH	REV
A	132-004150-000	2A	A

PIN 1 INDICATOR
(SILKSCREENED COMPONENT AND SOLDER SIDE)



302 - MODULE PIN 1 INDICATOR DETAIL

VMIC HUNTSVILLE, AL 35803-3308 VME MICROSYSTEMS INTERNATIONAL CORP.		DWG NO. 132-004150-000	
SIZE A	FSCM NO. OBPH5	SCALE 2A	
DRAWN: E. JORY CHECKED: C. Murphy		SHEET 2A	

REWORK LEGEND:

- A. REWORK INSTRUCTIONS SHALL BE ACCOMPLISHED ON THE COPPER REVISION(S) INDICATED AND WILL BECOME A PART OF THE ASSEMBLED BOARD.
- B. REWORK INSTRUCTION SYMBOLS:

1. PIN ONE DOT ■
2. DRILL HOLE ●
3. DISCONNECT TRACE ×
4. TRACE ON INTERNAL LAYER - - - - -
5. TRACE ON EXTERNAL LAYER _____

INSTRUCTIONS:

NOTES:

1

- A. ALL ASSEMBLED BOARDS SHALL BE IDENTIFIED WITH THE ASSEMBLED BOARD PART NUMBER. THIS NUMBER INCLUDES THE CURRENT REVISION LETTER LISTED IN THE "REVISION STATUS OF 332" BLOCK (SEE SHEET 1). THE RESULTING PART SHALL BECOME A 332-004150-XXX (REV).

- B. THE REVISION LETTER(S) OF THE ASSEMBLY DRAWING SHALL BE STAMPED IN THE DESIGNATED AREA.
- C. REMOVE ANY EXISTING REVISION LETTER FROM THE 332 ASSEMBLED PART NUMBER.
- D. REMOVABLE NON-SMEARING INK SHALL BE USED TO STAMP REVISION LETTERS IN THE DESIGNATED AREA.

2

SOLDER COMPOSITION COMPLIES WITH MIL-STD-2000.

3.

SUBMERGE THE 332-004150-XXX IN AN ALCOHOL BATH PRIOR TO TEST BURN-IN.



HUNTSVILLE, AL 35803-3308
VME MICROSYSTEMS INTERNATIONAL CORP.

DRAWN: E. JORY

CHECKED: C. Murphy

SIZE

A

FSCM NO.

OBPH5

DWG NO.

132-004150-000

SCALE

SHEET 3

OPT.		Q U A N T I T Y	I T E M #	VMIC® PARTS LIST VMIC MICROSYSTEMS INT'L CORP.		CODE	REV.	DRAWING NUMBER	CHECKED C. Muzzy DATE 7/29/93	SH NO. 4
A	B	C		REFERENCE DESIGNATOR	PART NO.	OBPH5	A	132-004150-000	MANUFACTURER'S PART NO.	
			1		333-004150-000			BOARD: PC, RAW, 8 LAYERS		
			1		317-000110-000			F/P ASSY: EXTRUDED EJECTOR, TWO 37 PIN CUTOUT, BOARD MOUNT LED		
			1		324-004150-100			LABEL: ID, 4150, FRONT PANEL		
			4	P1,2	328-250000-010			SCREW: METRIC, 2.5 X 10MM, SS		
			8	P1-4	328-250001-025			NUT: METRIC, 2.5MM, HEX, SS		
			A/R	REF P1-4	316-000002-000			LOCTITE: SMALL SCREW THREADLOCKER 222		
			1	U93	303-000992-000			PROGRAMMED PAL: FILE: 4150-93A.TDF A PROGRAMMED EPMS128 (331-300138-200)		
			1	U94	303-000995-000			PROGRAMMED PAL: FILE: 4150-94A.TDF A PROGRAMMED EP1810LC-20T (331-300139-200)		
			4	U23,28,56,84	311-000017-000			REFERENCE, VOLTAGE: 40V INPUT, 10, 7.5, 5 OR 2.5V OUTPUT, 8 PIN PLASTIC DIP	AD584(J,K,L,N) (ANALOG DEVICES)	
			4	U22,27,55,83	311-000018-012			AMP: OPERATIONAL, +-18V, 500MM, 0 TO 70 DEGREES, PLASTIC DIP	AD712KN (ANALOG DEVICES)	
			9	C58,60,71,72,82,84,95,96,109	315-102001-106			CAP: 10uF, .100 LEAD SPACE, 20%, 25V, TANTALUM	T35(0,1)E106M025AS (KEMET)	
			12	C5-8,29,30,45,46,65,66,89,90	315-102001-225			CAP: 2.2uF, .100 LEAD SPACE, 20%, 25V, TANTALUM	T35(0,1)B225M025AS (KEMET)	
			4	C57,59,81,83	315-205000-104			CAP: .1uF, .100 LEAD SPACE, 20%, 50V, 25U, CERAMIC MONOLYTHIC	C3(15,20)C104M5U5CA (KEMET)	
			8	C97-102,107,108	315-205002-104			CAP: .1uF, .300 LEAD SPACE, 20%, 50V, 25U, CERAMIC MONOLYTHIC	P104M2625UFVPMN (PHILLIPS)	
			8	C13-16,31,32,47,48	315-220003-479			CAP: 4.7pF, .100 LEAD SPACE, .5pF, 200V, NPO, CERAMIC MONOLYTHIC	C3(15,20)C479D2G5CA (KEMET)	

OPT.		Q U A N T I T Y	I T E M #	VME [®] VME MICROSYSTEMS INT'L CORP.	PARTS LIST		CODE OBPH5	REV. A	DRAWING NUMBER 132-004150-000	CHECKED C. Muzaffar	SH NO. 7
					REFERENCE DESIGNATOR	PART NO.					
A	B	C								MANUFACTURER'S PART NO.	
1	B	0	46	U92	303-000993-000				PROGRAMMED PAL: FILE: 4150-92A.TDF A PROGRAMMED EPM5128 (331-300138-200)		
1	B	0	47	U18,46,51,79	311-000017-000				REFERENCE, VOLTAGE: 40V INPUT, 10, 7.5, 5 OR 2.5V OUTPUT, 8 PIN PLASTIC DIP	A0584(J,K,L,N) (ANALOG DEVICES)	
1	B	0	48	U17,45,50,78	311-000018-012				AMP: OPERATIONAL, +-18V, 500mW, 0 TO 70 DEGREES, PLASTIC DIP	A0712KN (ANALOG DEVICES)	
1	B	0	49	C54,56,69,70 78,80,93,94	315-102001-106				CAP: 10uF, .100 LEAD SPACE, 20%, 25V, TANTALUM	T35(0,1)E106M025AS (KEMET)	
1	B	0	50	C3,4,21,22,25 26,41,42,63,64 87,88	315-102001-225				CAP: 2.2uF, .100 LEAD SPACE, 20%, 25V, TANTALUM	T35(0,1)B225M025AS (KEMET)	
1	B	0	51	C53,55,77,79	315-205000-104				CAP: .1uF, .100 LEAD SPACE, 20%, 50V, Z5U, CERAMIC MONOLYTHIC	C3(15,20)C104M5U5CA (KEMET)	
1	B	0	52	C11,12,23,24,27 28,43,44	315-220003-479				CAP: 4.7pF, .100 LEAD SPACE, .5pF, 200V, NPO, CERAMIC MONOLYTHIC	C3(15,20)C47902G5CA (KEMET)	
1	B	0	53	C104	315-900000-000				CAP: FIXED, MICRODECOUPLING, .6" X .6", 25V, .050uF	503AHL (ROGERS)	
1	B	0	54	U14-18,42-51 75-79	321-000007-002				SOCKET: IC, BREAKAWAY STRIP, 10 CONTACTS, TIN/GOLD	3852010-02 (MUPAC)	
1	B	0	55	E2,6,7,11	321-000015-001				JUMPER: PC BOARD, 2 POSITION, FEMALE, GOLD PLATED CONTACT, BLACK	MSB-2360-G-C-STP (McKENZIE)	
1	B	0	56	E2,6,7,11	321-000016-011				TERMINAL: PC BOARD, SINGLE ROW, .025 THICK, GOLD PLATED, ONE POST	92983401-01 (PANDUIT)	
1	B	0	57	U92	321-000062-068				CARRIER: CHIP, 68 PIN PLCC	821574-1 (AMP)	
1	B	0	58	U16,44,49,77	323-250037-000				CONVERTER: DIGITAL TO ANALOG, 12-BIT SERIAL INPUT, MULTIPLIER	DAC8043(GP,EZ,FZ,FP) (PMI)	
1	B	0	59	U2,31,33,61	331-309111-050				IC: VOLTAGE REGULATOR, 5 VOLTS, 100mA OUPUT, POSITIVE, INTERNAL SHORT CIRCUIT	LM78L05A (NATIONAL)	

OPT.		Q U A N T I T Y	I T E M #	VMIC® VME MICROSYSTEMS INT'L CORP.	PARTS LIST		CODE	REV.	DRAWING NUMBER	CHECKED		SH NO.
										DATE	C. Muzgala	
A	B	C		REFERENCE DESIGNATOR	PART NO.		OBPH5	A	132-004150-000	7/29/93		9
NOMENCLATURE OR DESCRIPTION												
2	B	0	75	C49,51,53,55,73 76,77,79	315-205000-104				CAP: .1uF, .100 LEAD SPACE, 20%, 50V, Z5U, CERAMIC MONOLITHIC	C3(15,20)C104M5U5CA	(KEMET)	
2	B	0	76	C9-12,19,20,23,24,27 28,35,36,39,40,43,44	315-220003-479				CAP: 4.7pF, .100 LEAD SPACE, .5pF, 200V, NPO, CERAMIC MONOLITHIC	C3(15,20)C47902G5CA	(KEMET)	
2	B	0	77	C103,104	315-900000-000				CAP: FIXED, MICROCOUPLING, .6" X .6", Z5V, .050uF	503AHL	(ROGERS)	
2	B	0	78	U9-18,37-51,65-79	321-000007-002				SOCKET: IC, BREAKAWAY STRIP, 10 CONTACTS, TIN/GOLD	3852010-02	(MUPAC)	
2	B	0	79	E1,2,5-7,9-11	321-000015-001				JUMPER: PC BOARD, 2 POSITION, FEMALE, GOLD PLATED CONTACT, BLACK	MSB-2360-G-C-STP	(McKENZIE)	
2	B	0	80	E1,2,5-7,9-11	321-000016-011				TERMINAL: PC BOARD, SINGLE ROW, .025 THICK, GOLD PLATED, ONE POST	92983401-01	(PANDUIT)	
2	B	0	81	U91,92	321-000062-068				CARRIER: CHIP, 68 PIN PLCC	821574-1	(AMP)	
2	B	0	82	U11,16,39,44,49 67,72,77	323-250037-000				CONVERTER: DIGITAL TO ANALOG, 12-BIT SERIAL INPUT, MULTIPLIER	DAC8043(GP,EZ,FZ,FP)	(PMI)	
2	B	0	83	U1,2,29,31,33 57,59,61	331-309111-050				IC: VOLTAGE REGULATOR, 5 VOLTS, 100mA OUTPUT, POSITIVE, INTERNAL SHORT CIRCUIT	LM78L05A	(NATIONAL)	
2	B	0	84	R5,6,18,20 22,30,32,34	347-000011-121				RESISTOR: 120 OHM, 1/8W, 5%, CARBON FILM			
2	B	0	85	R47,49,51,53 55,57,59,61	347-000014-100				RESISTOR: 10K OHM, 1/8W, 1%, METAL FILM			
2	B	0	86	RP6,9,22,25 28,38,41,44	347-001000-391				SIP: 390 OHM, BUSSED, 6 PIN, LOW PROFILE	4606X-101-391	(BOURNS)	
2	B	0	87	RP1,2,17-19,33-35	347-001000-472				SIP: 4.7K OHM, BUSSED, 6 PIN, LOW PROFILE	4606X-101-472	(BOURNS)	
2	B	0	88	RP5,8,21,24 27,37,40,43	347-001000-682				SIP: 6.8K OHM, BUSSED, 6 PIN, LOW PROFILE	4606X-101-682	(BOURNS)	
2	B	0	89	R1,2,13-15,25-27	347-500005-202				POT: TRIMMER, 2K OHM, MULTI-TURN, TOP ADJUSTMENT	3266W-1-202	(BOURNS)	

OPT.			Q U A N T I T Y	I T E M #	VME [®] PARTS LIST		CODE	REV.	DRAWING NUMBER	CHECKED	SH NO.			
					REFERENCE DESIGNATOR	PART NO.					OBPH5	A	132-004150-000	C. Murphy DATE 7/29/93
A B C					NOMENCLATURE OR DESCRIPTION								MANUFACTURER'S PART NO.	
2	B	0	8	90	A1-4,7-10	340-000041-020	CONVERTER: DC\DC, 3000V P-P ISOLATED, 2 WATTS, DUAL OUTPUT				21505HI	(CDI)		
2	B	0	8	91	U10,15,38,43 48,66,71,76	348-000004-000	OPTOCOUPLER:DUAL VERY HIGH-SPEED LOGIC GATE, 7V OUTPUT, 5V INPUT				HCPL-2630	(HP)		
2	B	0	8	92	U9,14,37,42 47,65,70,75	348-000008-001	TRANSISTOR: OPTOCOUPLER, DUAL HIGH-SPEED, 5 VOLTS, -.5 V TO 30V OUTPUT				HCPL-2531	(QUALITY)		
				93		DELETED								
				94										
0	0	0	4	95	U7,8,36,64	302-000015-000	MODULE: VOLTAGE, BIPOLAR, VMIVME-0144							
0	0	0	8	96	R11,12,23,35 38,40,42,44	347-000014-191	RESISTOR: 19.1K OHM, 1/8W, 1%, METAL FILM							
0	1	0	4	97	U7,8,36,64	302-000014-001	MODULE: CURRENT, VMIVME-0143, 5-20ma							
0	1	0	4	98	R11,12,23,35	347-000017-909	RESISTOR: 9.09K OHM, 1/8W, 1%, METAL FILM							
0	2	0	4	99	U7,8,36,64	302-000014-002	MODULE: CURRENT, VMIVME-0143, 0-20ma							
0	2	0	4	100	R11,12,23,35	347-000017-909	RESISTOR: 9.09K OHM, 1/8W, 1%, METAL FILM							
0	3	0	4	101	U7,8,36,64	302-000014-003	MODULE: CURRENT, VMIVME-0143, 5-25ma							
0	3	0	4	102	R11,12,23,35	347-000017-909	RESISTOR: 9.09K OHM, 1/8W, 1%, METAL FILM							
0	4	0	4	103	U7,8,36,64	302-000024-000	MODULE: VOLTAGE, UNIPOLAR, VMIVME-0157							
0	4	0	4	104	R38,40,42,44	347-000012-301	RESISTOR: 301K OHM, 1/8W, 1%, METAL FILM							
0	4	0	4	105	R11,12,23,35	347-000017-909	RESISTOR: 9.09K OHM, 1/8W, 1%, METAL FILM							
1	0	0	8	106	U6-8,32,34,36,62,64	302-000015-000	MODULE: VOLTAGE, BIPOLAR, VMIVME-0144							

OPT.		Q U A N T I T Y	I T E M #	VMIC[®] VME MICROSYSTEMS INT'L CORP.	P A R T S L I S T		CODE	REV.	DRAWING NUMBER	CHECKED	SH NO.
A	B	C		REFERENCE DESIGNATOR	PART NO.		OBPH5	A	132-004150-000	DATE	11
										C. Murphy	
										7/29/93	
1	0	0	107	R10-12, 19, 21, 23, 33, 35, 38, 40, 42, 44, 46, 48, 50, 52	347-000014-191						
1	1	0	108	U6-8, 32, 34, 36, 62, 64	302-000014-001						
1	1	0	109	R10-12, 19, 21, 23, 33, 35	347-000017-909						
1	2	0	110	U6-8, 32, 34, 36, 62, 64	302-000014-002						
1	2	0	111	R10-12, 19, 21, 23, 33, 35	347-000017-909						
1	3	0	112	U6-8, 32, 34, 36, 62, 64	302-000014-003						
1	3	0	113	R10-12, 19, 21, 23, 33, 35	347-000017-909						
1	4	0	114	U6-8, 32, 34, 36, 62, 64	302-000024-000						
1	4	0	115	R38, 40, 42, 44, 46, 48, 50, 52	347-000012-301						
1	4	0	116	R10-12, 19, 21, 23, 33, 35	347-000017-909						
2	0	0	117	U5-8, 30, 32, 34, 36, 58, 60, 62, 64	302-000015-000						
2	0	0	118	R9-12, 17, 19, 21, 23, 29, 31, 33, 35, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60	347-000014-191						
2	1	0	119	U5-8, 30, 32, 34, 36, 58, 60, 62, 64	302-000014-001						
2	1	0	120	R9-12, 17, 19, 21, 23, 29, 31, 33, 35	347-000017-909						

OPT.		Q U A N T I T Y	I T E M #	VME [®] PARTS LIST		CODE	REV.	DRAWING NUMBER	CHECKED	SH NO.
A	B			C	REFERENCE DESIGNATOR					
2	2	0	121	U5-8,30,32,34,36,58,60,62,64	302-000014-002					
2	2	0	122	R9-12,17,19,21,23,29,31,33,35	347-000017-909					
2	3	0	123	U5-8,30,32,34,36,58,60,62,64	302-000014-003					
2	3	0	124	R9-12,17,19,21,23,29,31,33,35	347-000017-909					
2	4	0	125	U5-8,30,32,34,36,58,60,62,64	302-000024-000					
2	4	0	126	R38,40,42,44,46,48,50,52,54,56,58,60	347-000012-301					
2	4	0	127	R9-12,17,19,21,23,29,31,33,35	347-000017-909					