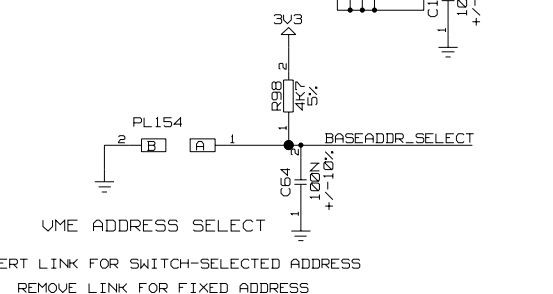
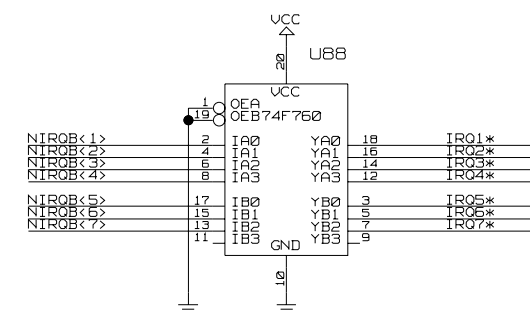
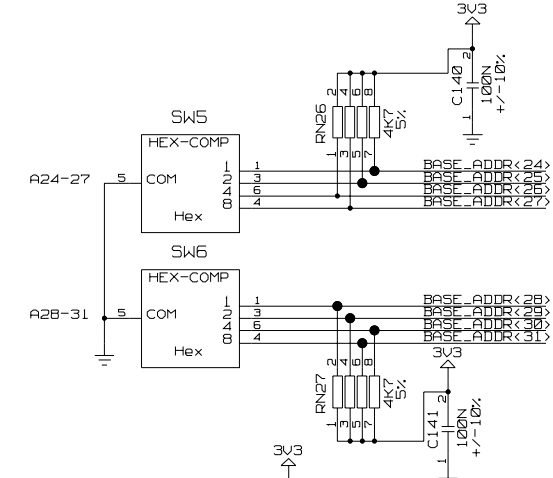
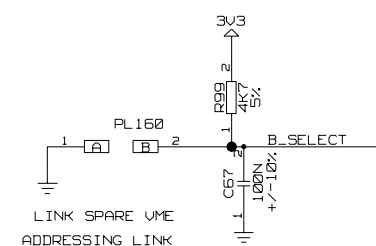
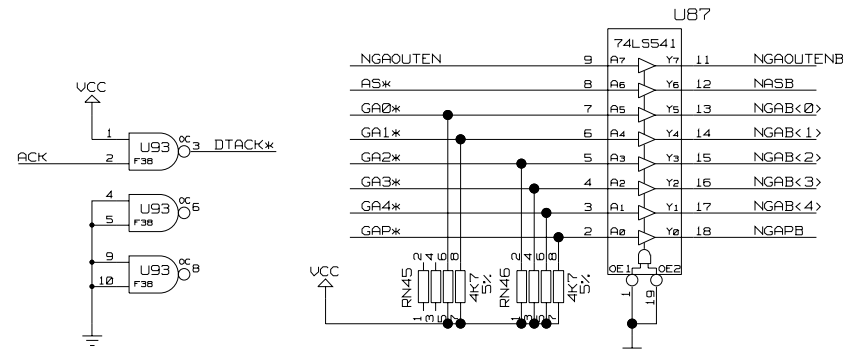
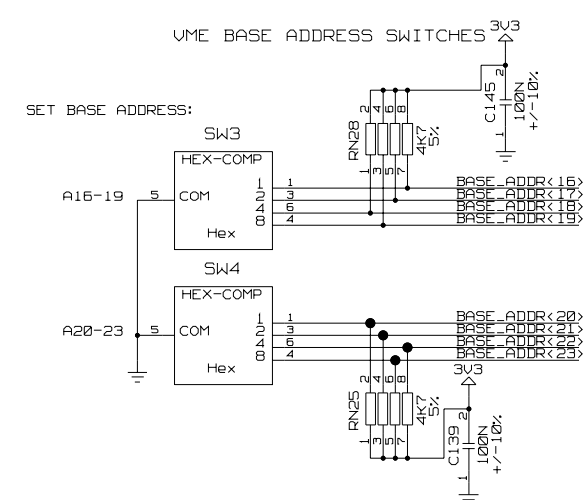
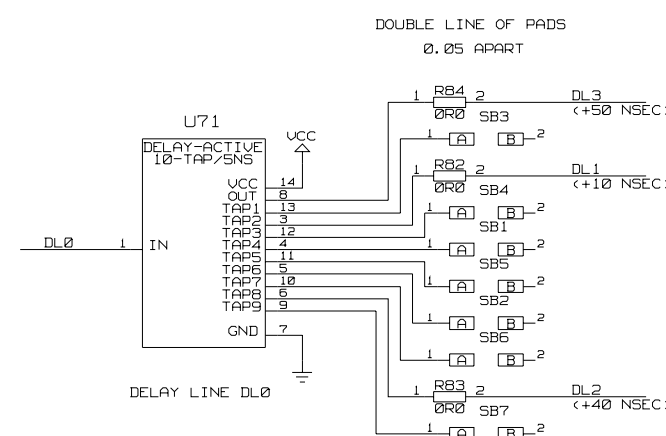


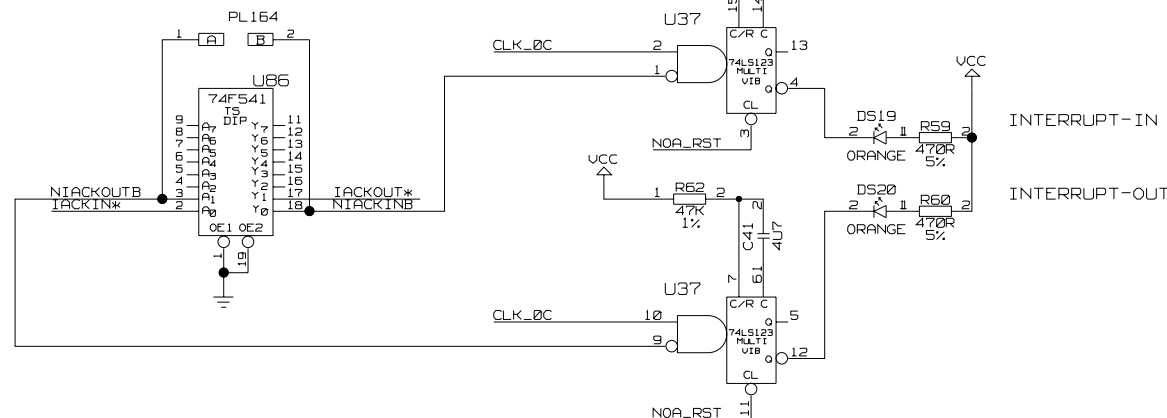
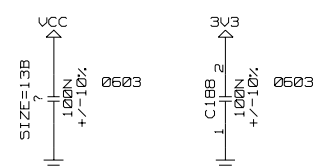
A	23-05-2003	- - - -	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS
USED ON ATLAS SCT					© CCLRC 2003	
CCLRC RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX.						
COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS						
TITLE						
PC3216M			CIRCUIT			
TTC INTERFACE MODULE (TIM-3)						
07-02						
A2-TE-0102-044-04-A						

VME DELAYS AND BASE SELECT

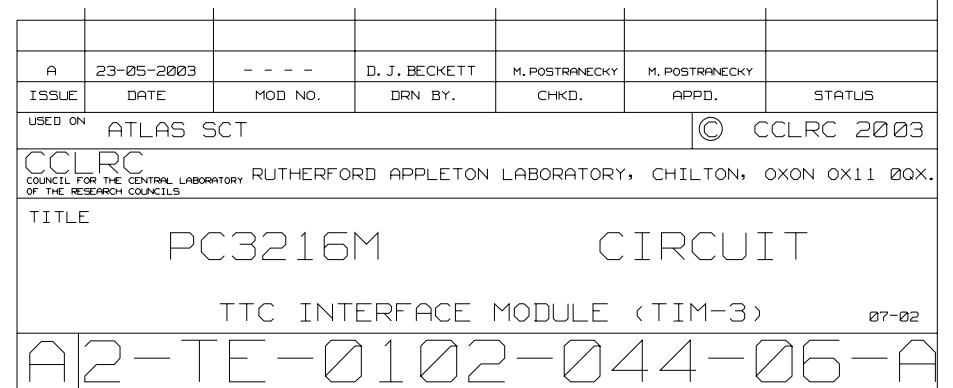


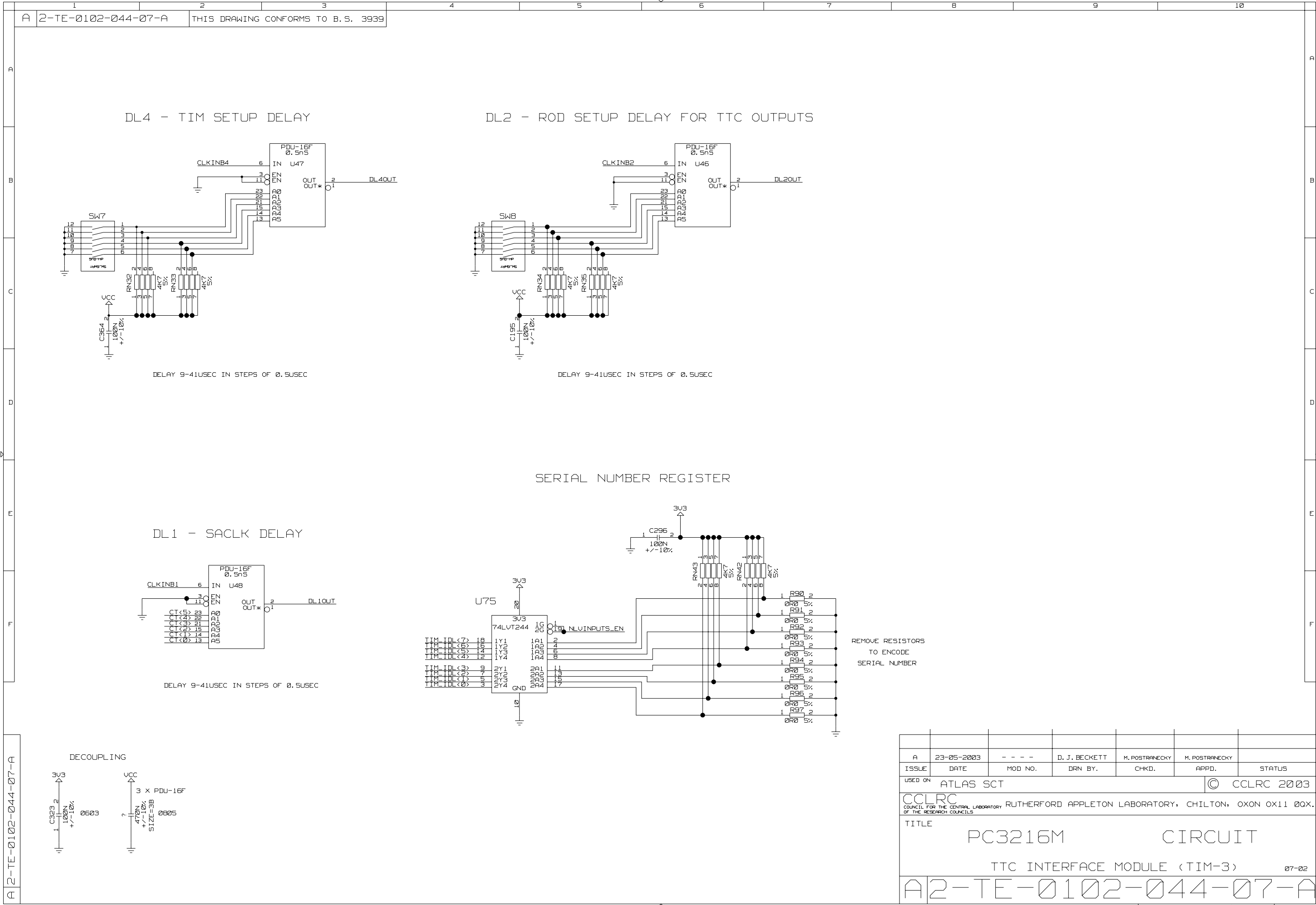
INTERRUPT-IN

INTERRUPT-OUT



A	23-05-2003	- - - -	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS
USED ON					ATLAS SCT	
					© CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS						
RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX.						
TITLE						
PC3216M CIRCUIT						
TTC INTERFACE MODULE (TIM-3)						
07-02						
A2-TE-0102-044-05-A						

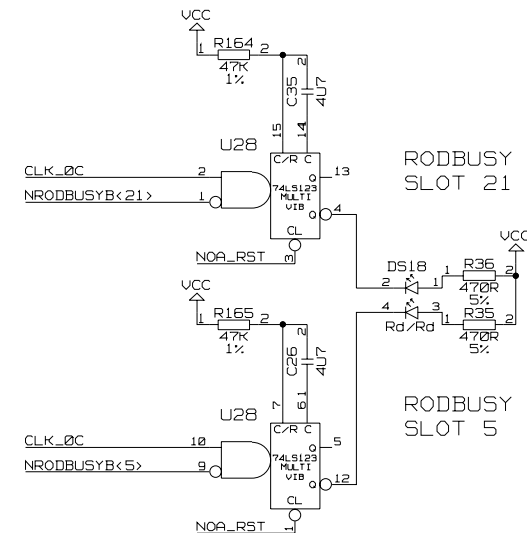
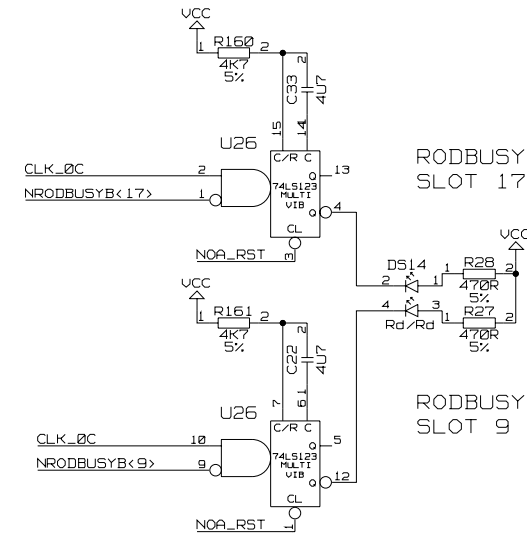




REMOVE RESISTORS
TO ENCODE
SERIAL NUMBER

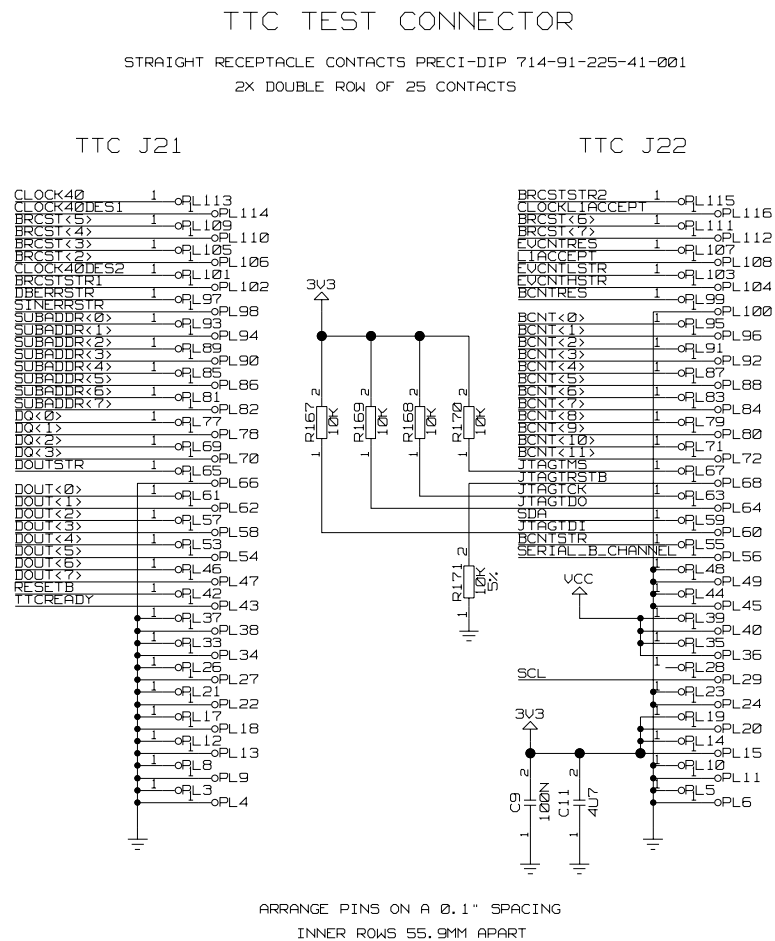
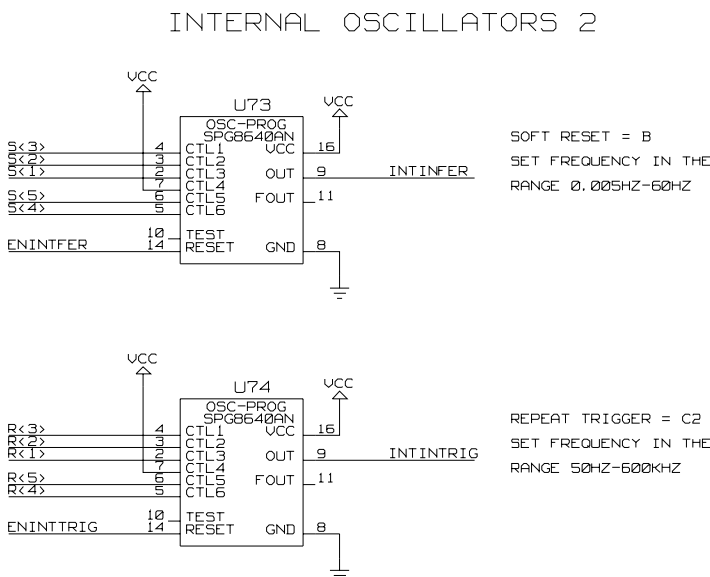
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ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS
USED ON ATLAS SCT					© CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX. OF THE RESEARCH COUNCILS						
TITLE			PC3216M CIRCUIT			
			TTC INTERFACE MODULE (TIM-3)			
A2-TE-0102-044-07-A			07-02			

TOTAL NO. OF SHEETS 16

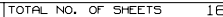


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100N
+/-10%
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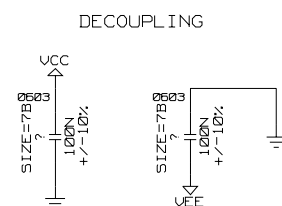
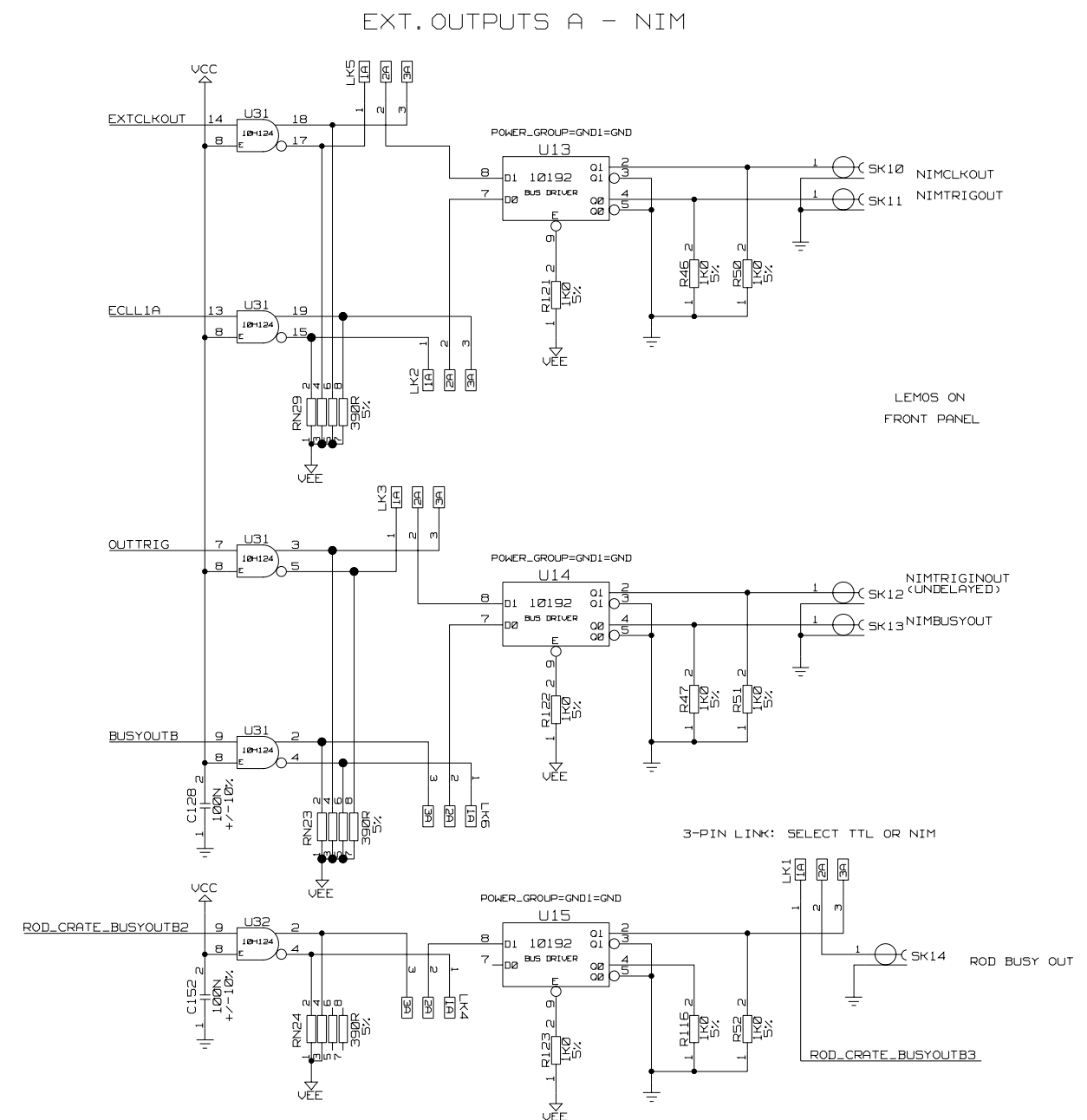
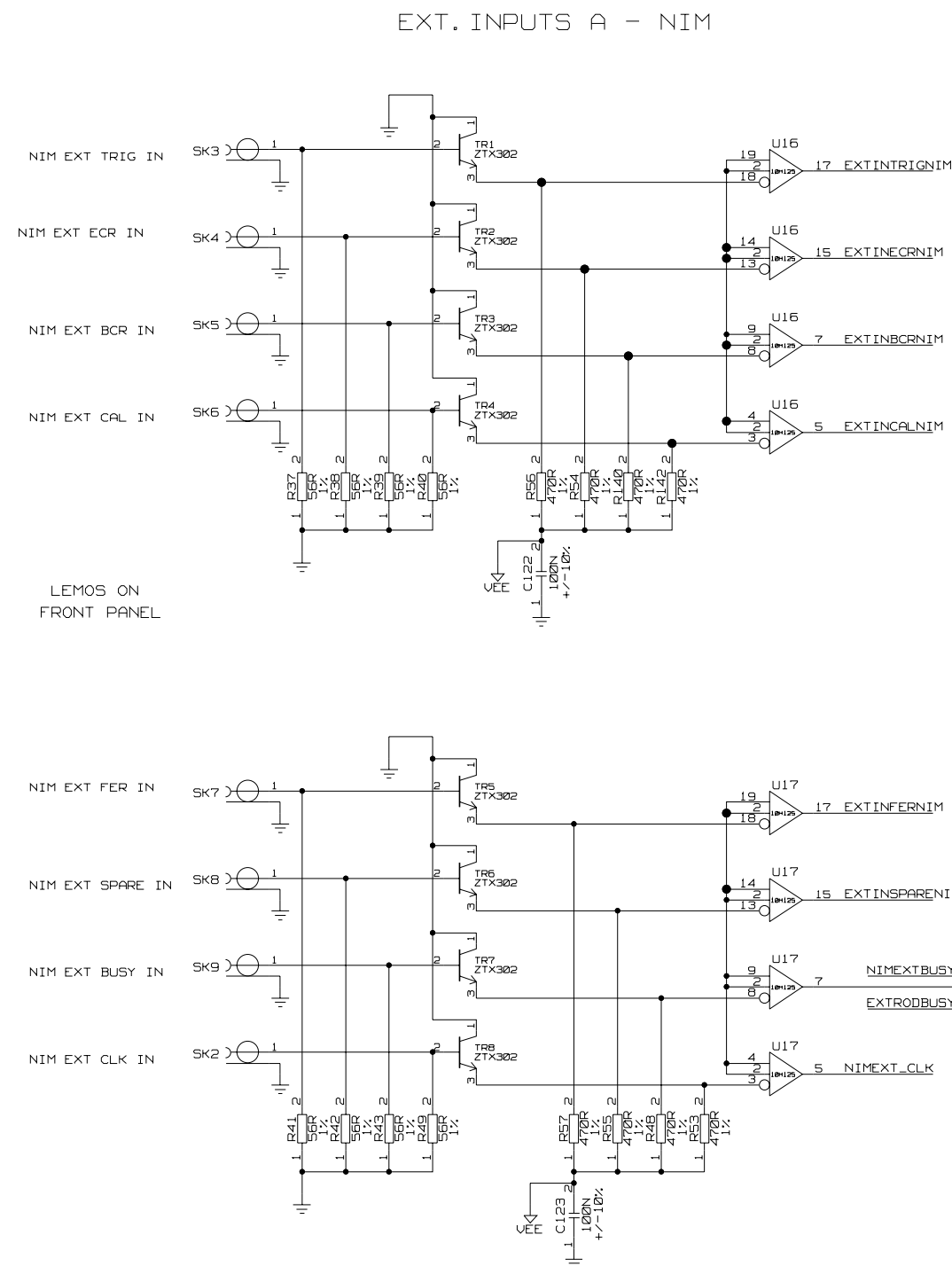
A	23-05-2003	- - - -	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS
USED ON					ATLAS SCT	
					© CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS						
RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX						
TITLE						
PC3216M						
CIRCUIT						
TTC INTERFACE MODULE (TIM-3)						
07-02						
A2-TE-0102-044-09-A						



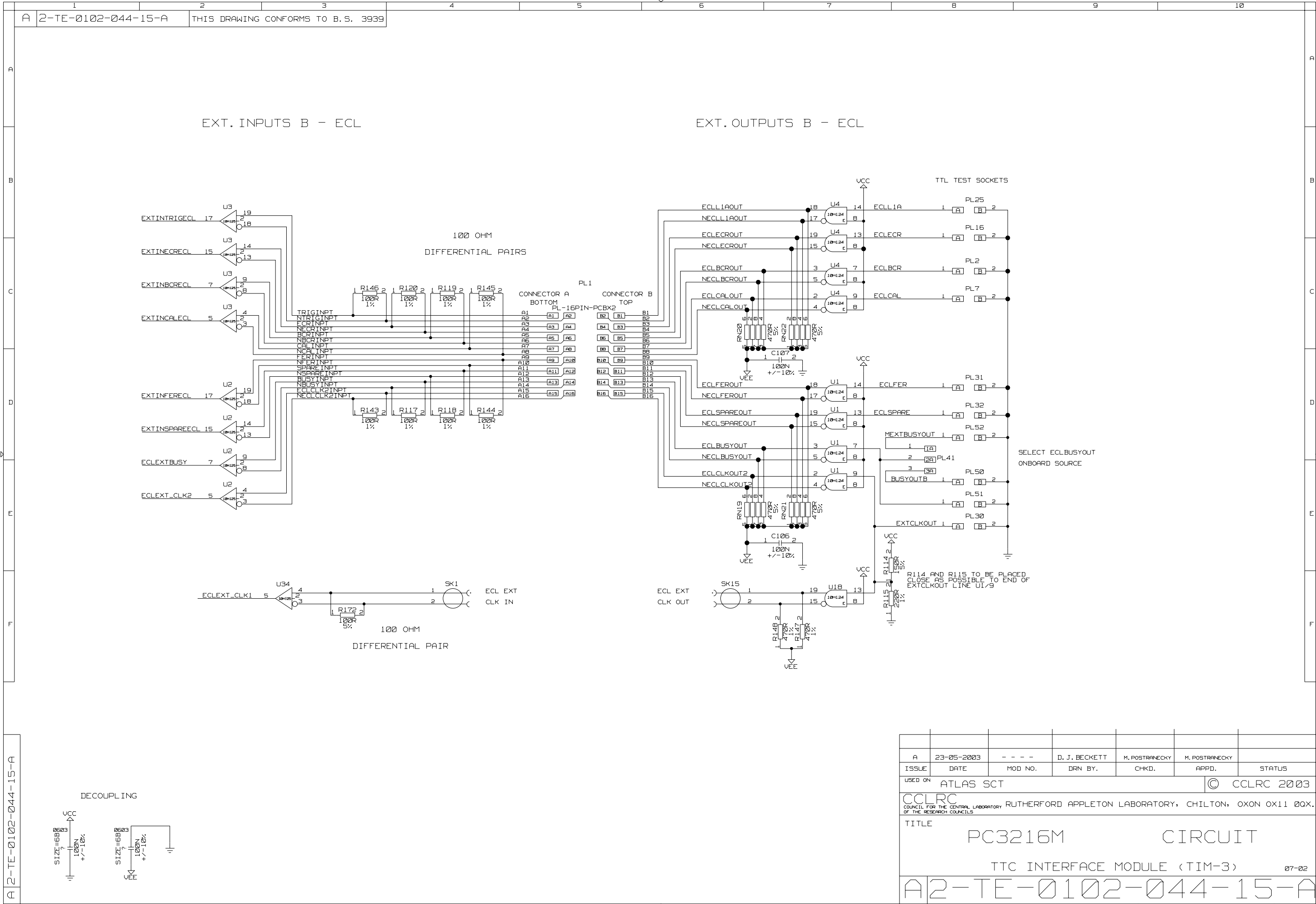
A	23-05-2003	- - - -	D. J. BECKETT	M. POSTANECKY	M. POSTANECKY		
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS	
USED ON ATLAS SCT						© CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX.							
TITLE PC3216M CIRCUIT							
TTC INTERFACE MODULE (TIM-3) 07-02							
A2-TE-0102-044-10-A							

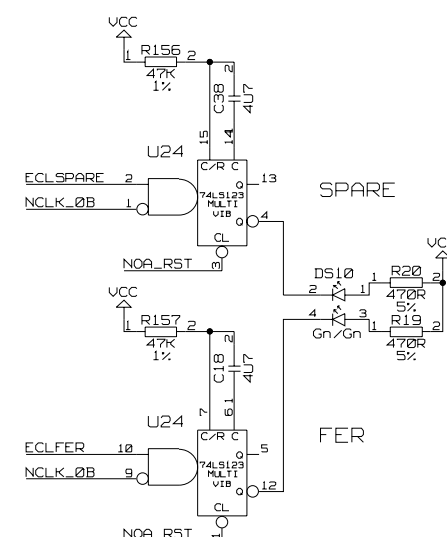
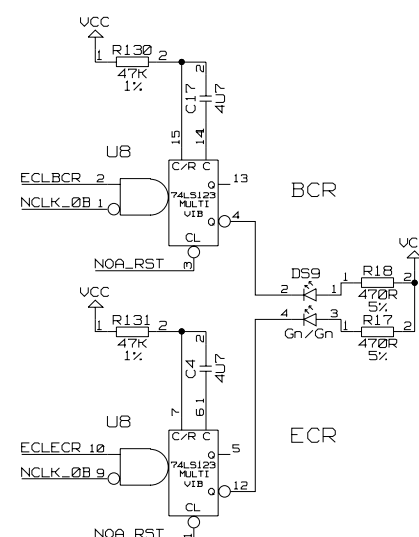
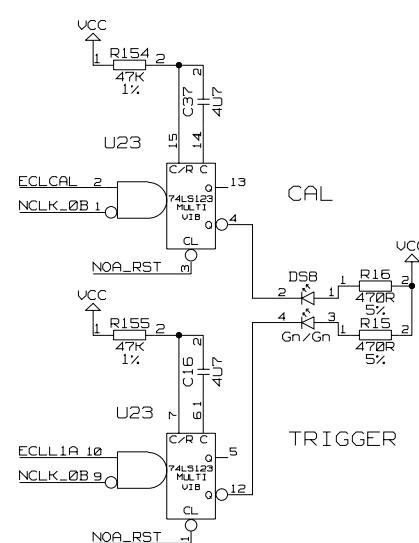
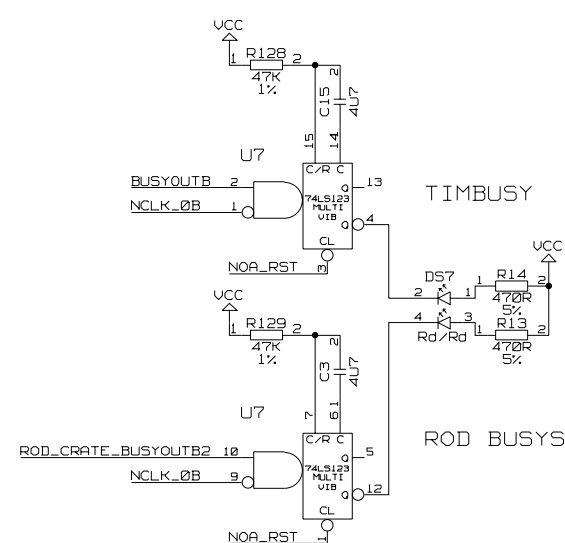
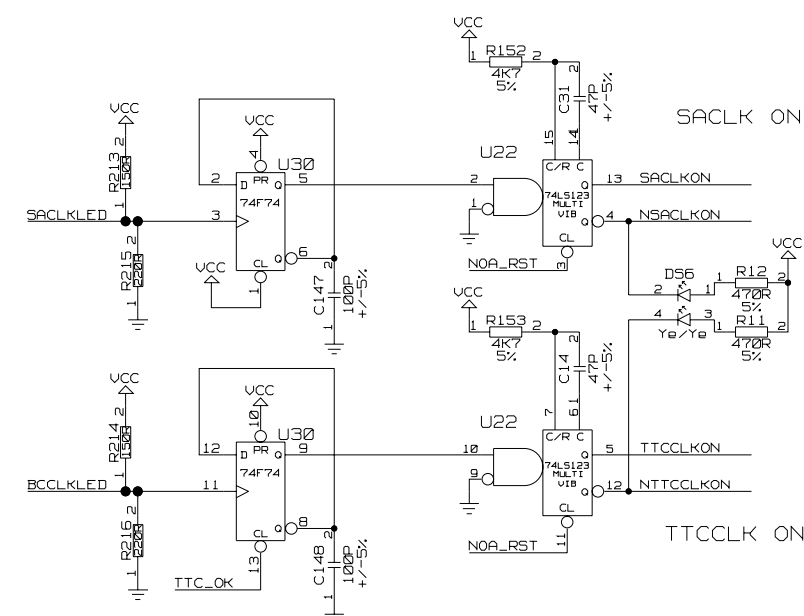
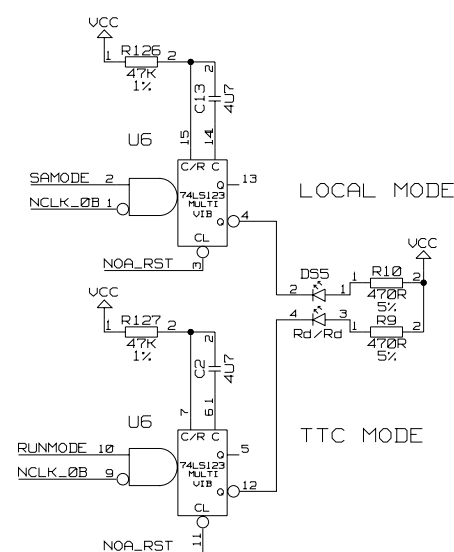
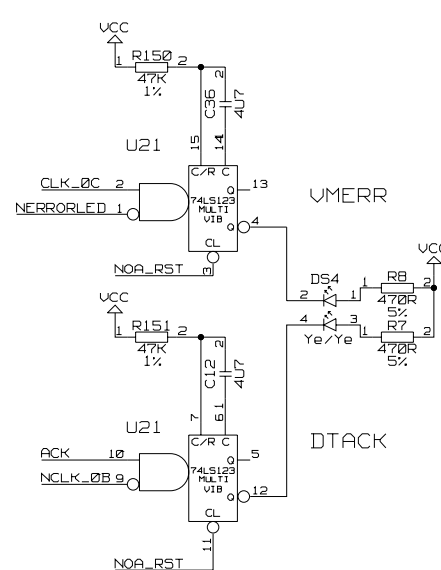
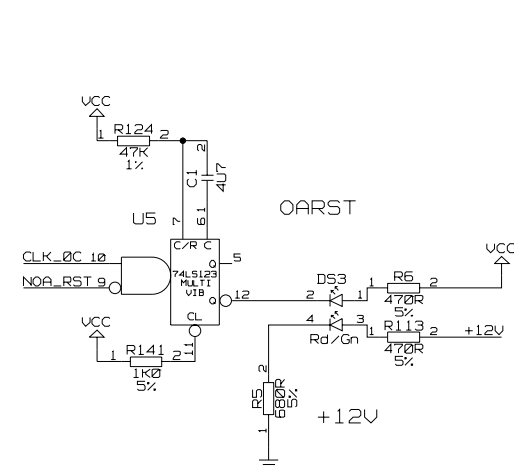



A	23-05-2003	- - - -	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY		
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.		STATUS
USED ON ATLAS SCT						©	CCLRC 2003
CCLRC COUNCIL FOR THE CENTRAL LABORATORY RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX. OF THE RESEARCH COUNCILS							
TITLE PC3216M CIRCUIT TTC INTERFACE MODULE (TIM-3) 07-02							
A2-TE-0102-044-12-A							



A	23-05-2003	- - - -	D. J. BECKETT	M. POSTRAINECY	M. POSTRAINECY	
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS
USED ON ATLAS SCT					© CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS						
RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX.						
TITLE						
PC3216M CIRCUIT						
TTC INTERFACE MODULE (TIM-3) 07-02						
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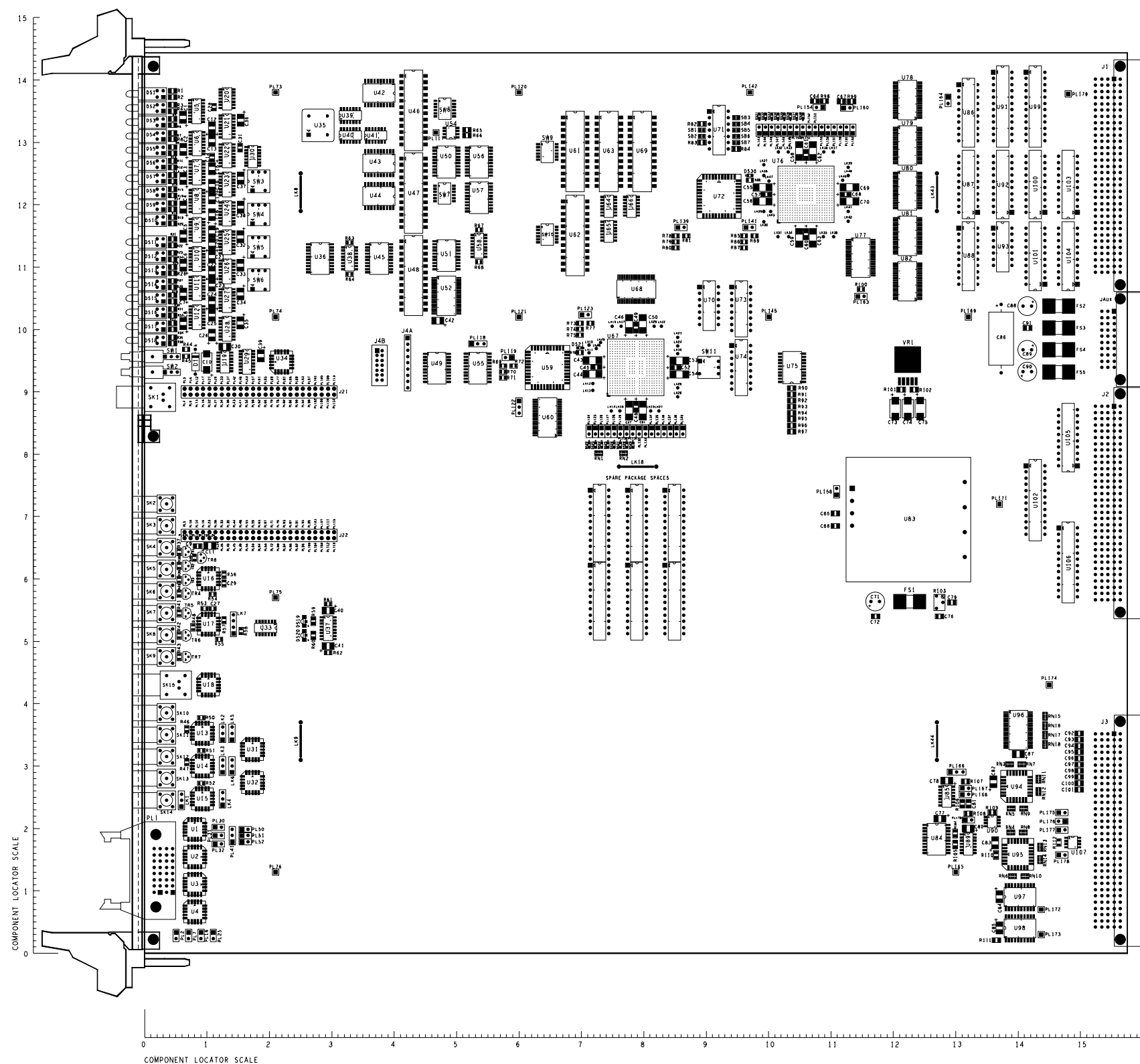






A	23-05-2003	- - - -	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS
USED ON					ATLAS SCT	
					© CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS						
RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX						
TITLE						
PC3216M			CIRCUIT			
TTC INTERFACE MODULE (TIM-3)						
07-02						
A2-TE-0102-044-16-A						

BOARD VIEWED ON 'A' FACE



ASSEMBLY NOTES



SOLDER PASTE MASTERS AVAILABLE FOR ASSEMBLY OF SURFACE MOUNT COMPONENTS.

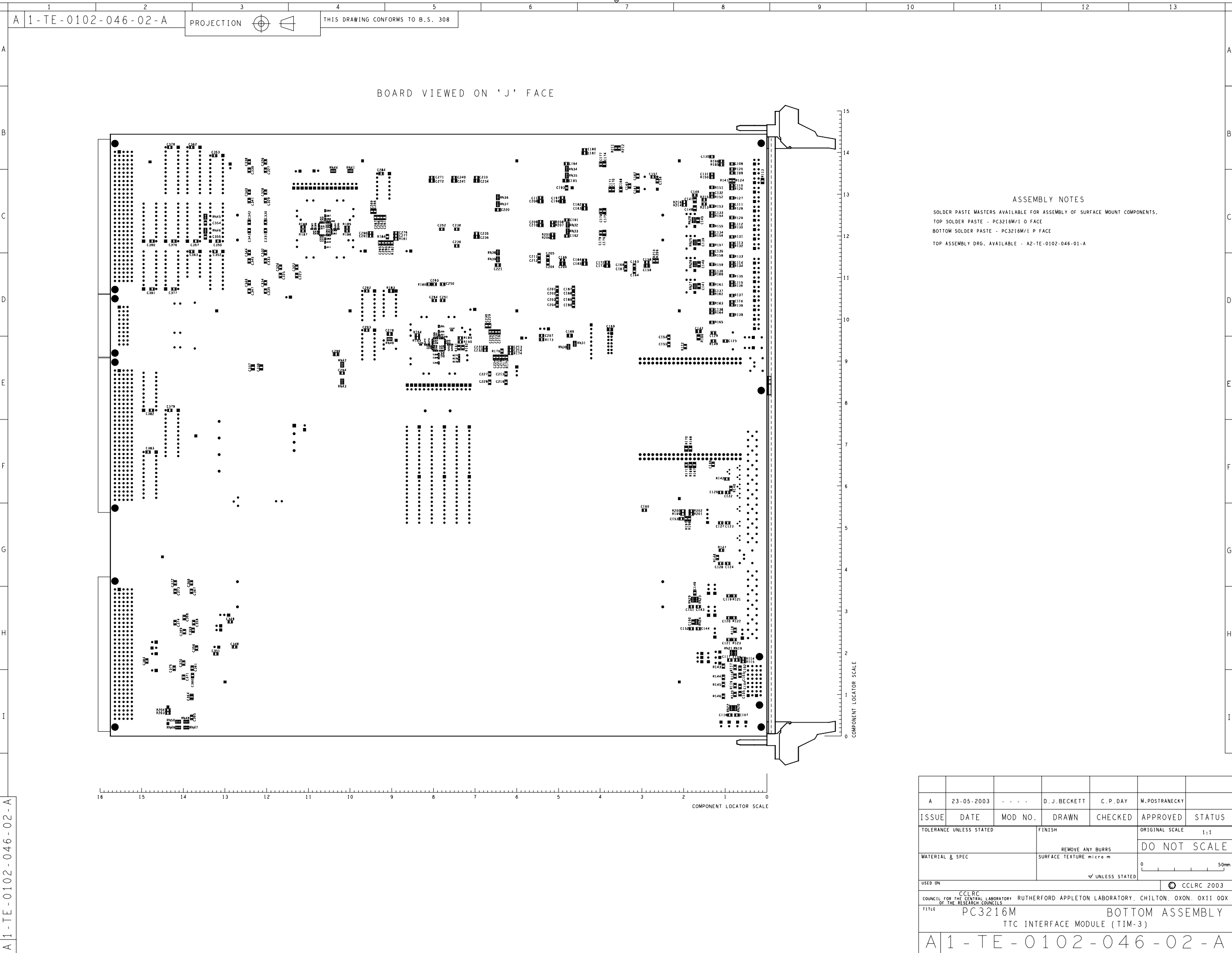
TOP SOLDER PASTE - PC3216M/1 O FACE

BOTTOM SOLDER PASTE - PC3216M/1 P FACE

BOTTOM ASSEMBLY DRG. AVAILABLE - A2-TE-0102-046-02-A

1. MOUNT LOW PROFILE SOCKETS WHERE ALL DIL I.C.'s ARE TO BE MOUNTED.
SEE KITTING LIST FOR DETAILS.
2. FIT PRECI-DIP PCB CONNECTORS 714-91-125-31-001 TO CREATE J21 AND J22
CONNECTORS. THESE ARE TO BE SOLDERED IN BUT NOT CUT SHORT BECAUSE DAUGHTER
BOARD LEGS HAVE TO PUSH THROUGH THE BOARD.
3. MOUNT GROUND BARS LK8, LK9, LK18, LK43 & LK44 AS HIGH OFF THE BOARD AS POSSIBLE.
4. DO NOT FIT CONNECTOR JAUX.
5. USE SCHROFF MOUNTING BLOCK TO FIT FRONT PANEL IN THE CENTRE.
SEE KITTING LIST FOR DETAILS

A	23-05-2003	- - - -	D.J.BECKETT	C.P.DAY	M.POSTRANECKY				
ISSUE	DATE	MOD NO.	DRAWN	CHECKED	APPROVED	STATUS			
TOLERANCE UNLESS STATED			FINISH			ORIGINAL SCALE	1:1		
MATERIAL & SPEC			REMOVE ANY BURRS SURFACE TEXTURE <i>micro m</i>			DO NOT SCALE			
									
USED ON						 CCLRC 2003			
CCLRC COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS						RUTHERFORD APPLETON LABORATORY, CHILTON, OXON. OX11 0Q			
TITLE		PC3216M			TOP ASSEMBLY				
TTC INTERFACE MODULE (TIM-3)									
A 1 - T E - 0 1 0 2 - 0 4 6 - 0 1 - A									
TOTAL NO. OF SHEETS 2									



KITTING LIST for: PC3216M TIM-3

OM Job No:

Engineer	Designer	PC Issue	Circuit Issue	Qty	Cost Centre	Checked & Approved (Signed & dated)
M.POSTRANECKY / M.WARREN	D.J.BECKETT	1	A			

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
-	PC3216M/1	PC Board	1								-
C1-8 C11-13 C15-26 C30 C32-42 C77 C78 C80 C82-85 C87	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B	43								-
C9 C64-67 C72 C76 C79 C81 C91-101 C139-141 C145 C186 C195 C220 C221 C278 C296 C336 C337 C364	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805	33								-
C10	AVX-KYOCERA TAJD476K016R	47uF SMD 16V Capacitor, Case Size D	1								-
C14 C31	Siemens B37940K5470J60	47pF SMD Capacitor, 50V, 0805	2								-
C27 C29 C102-108 C110-138 C143 C144 C146 C149-155 C157 C158 C160 C162 C163 C166 C168 C172 C177-180 C182 C184 C188 C189 C191-194 C196 C197 C199 C202 C203 C205 C209 C211 C214-216 C222 C224 C227-229 C231-233 C235 C238-240 C250-252 C263 C264 C271 C276 C277 C281 C283 C284 C286-290 C292-294 C322-335 C338-358 C361-363 C365-384 C11	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603	169								-
C28 C156 C165 C170 C171	Farnell 722-080	100pF NPO Capacitor, 0603	5								-
C43 C44 C46 C47 C50 C51 C53-56 C58 C59 C62 C63 C69 C70	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C	16								-
C45 C48 C49 C52 C57 C60 C61 C68	AVX-KYOCERA TAJA105K016R	1uF SMD 16V Capacitor, Case Size A	8								-
C71 C88-90	Farnell 920-460	470uF 16V Electrolytic	4								-
C73 C74	AVX-KYOCERA TPSE477K010R0050	470uF SMD 10V Low ESR Capacitor, Case Size E	2								-
C75	AVX TPSD107K010R0100	100uF SMD 10V Capacitor, Case Size D	1								-
C86	Farnell 912-967	1000uF 16V Axial Electrolytic	1								-
C109	Farnell 722-042	47pF NPO Capacitor, 0603	1								-

KITTING LIST for: PC3216M TIM-3

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
C142 C159 C169 C173-176 C181 C183 C185 C198 C200 C208 C210 C234 C236 C241 C272	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805	18								-
C147 C148	RS 298-9258	100pF SMD Capacitor, 0805, COG Dielectric, 100V	2								-
C161	AVX-KYOCERA CM21X7R334K16VAT	330nF SMD Capacitor, 0805	1								-
C164 C167 C206 C212	CC0603HY5V103ZTR	10nF SMD Capacitor, 0603	4								-
C187 C190 C201 C204 C207 C213 C217-219 C223 C225 C226 C230 C279 C280 C282 C285 C291 C359 C360	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603	20								-
C237 C244 C247-249 C255 C260 C265-267 C270 C275 C298 C301-303 C306 C311 C314-316 C319	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V	22								-
C242 C243 C245 C246 C253 C254 C256-259 C261 C262 C268 C269 C273 C274 C295 C297 C299 C300 C304 C305 C307-310 C312 C313 C317 C318 C320 C321	Farnell 578-149	10nF SMD Capacitor, 0402	32								-
D1	Farnell 368-106	1N4148PS, Small Signal Diode	1								-
DS1 DS2	Schroff 69004-287	Bi-Level Low Current Green/Green 3.2mm LED	2								-
DS3	Schroff 69004-127	Bi-Level Standard Red/Green 3.2mm LED	1								-
DS4 DS6	Schroff 69004-126	Bi-Level Standard Yellow/Yellow 3.2mm LED	2								-
DS5 DS7 DS11-18	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED	10								-
DS8-10	Schroff 69004-125	Bi-Level Standard Green/Green 3.2mm LED	3								-
DS19 DS20	Aligent Technologies HSMD-S660	Rt-Ang Surface Mount Orange LED	2								-
DS21-38	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric	18								-
FS1 FS3	RS 344-5103	10A SMD Fuse in Holder, OMF63 Series	2								-
FS2 FS4 FS5	RS 344-5096	5A SMD Fuse in Holder, OMF63 Series	3								-
J1-3	Harting 02011602101	160way Rt-Ang Plug Har-Bus 64 System	3								-
J4B	Molex 87331-1420	Molex Straight 2mm pitch 2x7 pin Header, PTH	1								-
J4A	Harwin M20-999 09 05	Harwin Straight 9 pin Header	1								-
JAUX	Erni(Stuc3) 30-M-ABC	30way Rt-Ang PCB Plug	1								-
LK1-6 PL41 PL118 PL122 PL166	Harwin M20-999 03 05	Harwin Straight 3 pin Header	10								-
LK7	Harwin M20-999 04 05	Harwin Straight 4 pin Header	1								-
LK8 LK9 LK18 LK43 LK44	Comatel 3000500	2 pin 0.6 inch pitch Jumper	5								-

KITTING LIST for: PC3216M TIM-3

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
PL1	3M 3408-D303	32-Pin Condo double-header, PCB RT-ANG	1								-
PL2 PL7 PL16 PL25 PL30-32 PL50-52 PL119 PL123-141 PL143 PL144 PL146-164 PL167 PL168 PL170 PL175-178	Harwin M20-999 02 05	Harwin Straight 2 pin Header	58								-
PL73-76 PL117 PL120 PL121 PL142 PL145 PL165 PL169 PL171-174 PL179	Harwin M20-999 20 05	Harwin Straight 1 pin Header	16								-
R1 R2 R6-36 R59 R60 R113	Farnell 613-058	470R SMD Resistor, 0.1W, 0805	36								-
R3	Farnell 613-034	330R SMD Resistor, 0.1W, 0805	1								-
R4 R106	Farnell 613-095	1K0 SMD Resistor, 0.1W, 0805	2								-
R5	Farnell 613-071	680R SMD Resistor, 0.1W, 0805	1								-
R37-43 R49	Farnell 911-082	56R SMD Resistor, 0.063W, 0603	8								-
R44 R46 R47 R50-52 R116 R121-123 R141	Rohm MCR03EZHZJ102	1K0 SMD Resistor, 0.1W, 0603	11								-
R45 R112 R172	Rohm MCR03EZHZJ101	100R SMD Resistor, 0.1W, 0603	3								-
R48 R53-57 R140 R142 R147 R148	Farnell 911-197	470R SMD Resistor, 0.063W, 0603	10								-
R58 R63 R64 R67 R68 R100 R125 R152 R153 R160 R161 R173-175 R180-182	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603	17								-
R61 R62 R124 R126-139 R150 R151 R154-159 R162-165	Farnell 911-434	47K SMD Resistor, 0.063W, 0603	29								-
R65 R66 R109	Farnell 613-022	270R SMD Resistor, 0.1W, 0805	3								-
R69-75 R77-81 R85-87 R89	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603	16								-
R76 R88 R186 R188 R190 R192 R194 R196 R204 R206 R208 R210 R212 R215 R216	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603	15								-
R82-84 R90-97	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805	11								-
R98 R99 R104 R105 R108 R111	Farnell 613-174	4.7K SMD Resistor, 0.1W, 0805	6								-
R101 R102 R167-170 R183	Farnell 613-216	10K SMD Resistor, 0.1W, 0805	7								-
R103	Farnell 347-681	100K, 3266W Variable Resistor, 0.25W	1								-
R107 R166	Farnell 613-290	47K SMD Resistor, 0.1W, 0805	2								-
R110	Farnell 612-972	100R SMD Resistor, 0.1W, 0805	1								-
R114 R185 R187 R189 R191 R193 R195 R203 R205 R207 R209 R211 R213 R214	Farnell 612-388	150R SMD Resistor, 0.063W, 0603	14								-

KITTING LIST for: PC3216M TIM-3

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
R115	Farnell 911-150	220R SMD Resistor, 0.063W, 0603	1								-
R117-120 R143-146	Rohm MCR03EZPF101	100R SMD Resistor, 0.063W, 0603	8								-
R149 R171	Rohm MCR03EZHJ103	10K SMD Resistor, 0.1W, 0603	2								-
R176 R184	Rohm MCR03EZHJ332	3K3 SMD Resistor, 0.1W, 0603	2								-
R177 R179	Farnell 195-030	1K0 SMD Resistor, 0.063W, 0402	2								-
R178	Farnell 195-110	4K7 SMD Resistor, 0.063W, 0402	1								-
R197 R199 R201	Farnell 911-161	270R SMD Resistor, 0.063W, 0603	3								-
R198 R200 R202	Rohm MCR03EZHJ181	180R SMD Resistor, 0.1W, 0603	3								-
RN1 RN2 RN41 RN44 RN48 RN50	Farnell 776-660	220R, ARC241, 4-isolated Resistors, 0.062W	6								-
RN3-14	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W	12								-
RN15-18	Farnell 776-762	10K, ARC241, 4-isolated Resistors, 0.062W	4								-
RN19-22	Farnell 776-683	470R, ARC241, 4-isolated Resistors, 0.062W	4								-
RN23 RN24 RN29	Farnell 307-0165	390R, ARC241, 4-isolated Resistors, 0.062W	3								-
RN25-28 RN30-35 RN40 RN42 RN43 RN45 RN46	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W	15								-
RN36-39	Farnell 776-701	1K, ARC241, 4-isolated Resistors, 0.062W	4								-
RN47 RN49	Farnell 776-658	150R, ARC241, 4-isolated Resistors, 0.062W	2								-
SK1 SK15	Lemo EPG.302.HLN	Lemo Socket, 2 Female PCB Mount	2								-
SK2-14	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount	13								-
SW1 SW2	RS 664-389	SPST Right-Angle Momentary Switch	2								-
SW3-6 SW11	Farnell 146-199	Sealed PCB Mount Vert Rotary Hex Switch	5								-
SW7-10	Thomas & Betts GDH06S	6way SMD Half Pitch Switch	4								-
TR1-8	Farnell 358-010	General Purpose Switching NPN Transistor	8								-
U1 U4 U18 U31 U32	Motorola MC10H124FN	Quad TTL to ECL Translator	5								-
U2 U3 U16 U17 U34	Motorola MC10H125FN	Quad ECL to TTL Translator	5								-
U5-12 U21-29 U37	TI SN74LS123D	SMD Dual Monostable	18								-
U13-15	Motorola MC10192FN	Quad Bus Driver	3								-
U19	Philips N74F14D	SMD Hex Schmitt-Trigger Inverters	1								-
U20 U30	Philips N74F74D	SMD Dual D-Type Positive-Edge Trigger Flip-Flops	2								-
U33	Philips N74F27D	Triple 3-Input NOR Gate, SOIC	1								-
U35	ECM GBS-204-80.16-C	80.16MHz Crystal Clock Oscillator	1								-
U36 U42-45 U50 U51 U56 U57	Philips 74ABT541D	SMD Octal Buffer, 3-state	9								-
U38 U58	ICS ICS581-02	Zero-Delay Glitch Free Clock Multiplexer	2								-
U39	Philips 74ABT04D	SMD Hex Invertors	1								-
U40 U41 U64	Philips N74ABT74D	Dual D-Type Flip-Flop	3								-

KITTING LIST for: PC3216M TIM-3

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
U46-48 U61-63 U69	Data Delay Devices PDU-16F-.5A4	6 Bit Programmable Delay Unit, TTL 0.5nS Steps, Gull-Wing	7								-
U49 U55 U75 U84	Philips 74LVT244AD	3-State Low Voltage Octal Buffer	4								-
U52 U60 U68 U77 U79-81 U96	Philips 74LVT16244BDL	3.3V 16-bit Buffer/Line Driver	8								-
U54 U90	Motorola MC100ELT20D	TTL to Differential PECL Translator	2								-
U59	Xilinx XC18V04PC44C	Xilinx In-System Programmable Configuration PROM	1								-
U65	Philips N74F11D	Triple 3-Input AND Gate	1								-
U66	Philips 74ABT08D	SMD Quad 2-input AND Gate	1								-
U67	Xilinx XC2S600E-7FG456C	Xilinx Spartan-IIE 1.8V FPGA	1								-
U70	NSC 74F14PC	Hex Schmitt-Trigger Inverters	1								-
U71	Newport 50A10500	Active Buffered 10-Tap, 5ns Step Delay Line	1								-
U72	Xilinx XC18V02PC44C	Xilinx In-System Programmable Configuration PROM	1								-
U73 U74	Euroquartz SPG8640AN	Programmable Crystal Oscillator	2								-
U76	Xilinx XC2S200E-6FG456C	Xilinx Spartan-IIE 1.8V FPGA	1								-
U78 U82	Philips 74ALVC164245DL	16-Bit Dual Supply Translating Transceiver	2								-
U83	TRACO TAM 25-2411	25W Single 5V Output DC/DC Converter	1								-
U85 U89	Philips 74ABT125D	3-State Quad Buffer	2								-
U86	Philips N74F541N	Octal Buffers, 3-state outputs	1								-
U87	TI SN74LS541N	Octal Buffers with 3 State Outputs	1								-
U88	Philips N74F760N	Octal Buffer (Open-Collector)	1								-
U91 U99 U102 U106	NSC 74F543PC	Octal Registered Transceiver	4								-
U92 U100 U101 U103-105	NSC 74F541PC	Octal Buffers, 3-state outputs	6								-
U93	TI SN74F38N	Quad 2 Input NAND Buffer	1								-
U94 U95	Synergy SY100E111JC	1:9 Differential Clock Driver With Enable	2								-
U97 U98	Philips 74ABT574D	SMD Octal Edge Triggered D-Type Latches	2								-
U107	Motorola MC100ELT21D	Differential PECL to TTL Translator	1								-
VR1	NSC LP3963ES-1.8	3A Fast Ultra Low Dropout Linear Regulator	1								-
-	Rittal 3685.516	9Ux4HP Flat Front Panel	1								-
-	Rittal 3688.770	Injector/Extractor Handle - Top	1								-
-	Rittal 3688.771	Injector/Extractor Handle - Bottom	1								-
-	Schroff 60807-181	Front Panel Mounting Block	1								-
-	Preci-Dip 714-91-125-31-001	PCB Sockets	4								4 Rows of 25 required for Daughter Card
-	Harwin D01-99-03-314	Low-Profile DIP sockets	3								Required for 3 14-pin DIP chips
-	Harwin D01-99-03-316	Low-Profile DIP sockets	2								Required for 2 16-pin DIP chips

KITTING LIST for: PC3216M TIM-3

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
-	Harwin D01-99-03-320	Low-Profile DIP sockets	9								Required for 9 20-pin DIP chips
-	Harwin D01-99-03-324	Low-Profile DIP sockets	4								Required for 4 24-pin DIP chips

PARTS LIST for: PC3216M TIM-3

OM Job No:

Engineer	PC Issue	Circuit Issue	Cost Centre	Checked & Approved (Signed & dated)
M.POSTRANECKY / M.WARREN	1	A		

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
C1	0.61	13.40	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C2	0.62	12.88	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C3	0.62	12.42	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C4	0.62	11.96	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C5	0.62	11.49	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C6	0.62	11.03	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C7	0.62	10.56	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C8	0.62	10.10	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C9	0.85	6.53	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C10	0.99	9.48	AVX-KYOCERA TAJD476K016R	47uF SMD 16V Capacitor, Case Size D
C11	1.04	6.53	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C12	1.08	13.23	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C13	1.08	13.03	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C14	1.08	12.76	Siemens B37940K5470J60	47pF SMD Capacitor, 50V, 0805
C15	1.08	12.58	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C16	1.08	12.31	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C17	1.08	12.11	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C18	1.08	11.84	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C19	1.08	11.56	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C20	1.08	11.37	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C21	1.08	11.16	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C22	1.08	10.91	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C23	1.08	10.71	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C24	1.08	10.43	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C25	1.08	10.23	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C26	1.08	9.91	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
C27	1.09	5.53	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
C28	1.11	13.56	Farnell 722-080	100pF NPO Capacitor, 0603
C29	1.27	5.93	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
C30	1.28	9.72	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C31	1.53	12.91	Siemens B37940K5470J60	47pF SMD Capacitor, 50V, 0805
C32	1.53	11.48	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C33	1.53	11.03	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C34	1.53	10.57	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C35	1.53	10.11	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C36	1.54	13.36	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C37	1.54	12.43	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C38	1.54	11.96	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C39	1.86	9.58	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C40	2.94	5.50	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C41	2.94	4.92	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C42	4.70	10.14	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C43	7.18	9.50	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C44	7.18	9.28	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C45	7.24	9.39	AVX-KYOCERA TAJA105K016R	1uF SMD 16V Capacitor, Case Size A
C46	7.76	10.09	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C47	7.76	8.70	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C48	7.87	8.76	AVX-KYOCERA TAJA105K016R	1uF SMD 16V Capacitor, Case Size A
C49	7.87	10.03	AVX-KYOCERA TAJA105K016R	1uF SMD 16V Capacitor, Case Size A
C50	7.98	10.09	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C51	7.98	8.70	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C52	8.51	9.39	AVX-KYOCERA TAJA105K016R	1uF SMD 16V Capacitor, Case Size A
C53	8.57	9.50	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C54	8.57	9.28	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C55	9.90	12.28	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C56	9.90	12.05	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C57	9.96	12.16	AVX-KYOCERA TAJA105K016R	1uF SMD 16V Capacitor, Case Size A

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
C58	10.49	12.86	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C59	10.49	11.47	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C60	10.60	11.53	AVX-KYOCERA TAJA105K016R	1uF SMD 16V Capacitor, Case Size A
C61	10.60	12.80	AVX-KYOCERA TAJA105K016R	1uF SMD 16V Capacitor, Case Size A
C62	10.71	12.86	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C63	10.71	11.47	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C64	10.74	13.66	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C65	11.07	7.05	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C66	11.07	6.85	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C67	11.17	13.65	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C68	11.23	12.16	AVX-KYOCERA TAJA105K016R	1uF SMD 16V Capacitor, Case Size A
C69	11.29	12.28	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C70	11.29	12.05	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C
C71	11.78	5.63	Farnell 920-460	470uF 16V Electrolytic
C72	11.71	5.40	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C73	12.03	8.73	AVX-KYOCERA TPSE477K010R0050	470uF SMD 10V Low ESR Capacitor, Case Size E
C74	12.23	8.73	AVX-KYOCERA TPSE477K010R0050	470uF SMD 10V Low ESR Capacitor, Case Size E
C75	12.43	8.73	AVX TPSD107K010R0100	100uF SMD 10V Capacitor, Case Size D
C76	12.74	5.40	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C77	12.74	2.15	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C78	12.86	2.77	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C79	12.94	5.62	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C80	13.20	2.00	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C81	13.21	2.40	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C82	13.60	2.75	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C83	13.63	1.77	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C84	13.70	0.91	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C85	13.70	0.41	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C86	13.72	9.30	Farnell 912-967	1000uF 16V Axial Electrolytic
C87	14.00	3.19	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B
C88	14.07	10.38	Farnell 920-460	470uF 16V Electrolytic

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
C89	14.07	9.68	Farnell 920-460	470uF 16V Electrolytic
C90	14.21	9.32	Farnell 920-460	470uF 16V Electrolytic
C91	14.15	10.03	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C92	14.97	3.52	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C93	14.97	3.42	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C94	14.97	3.33	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C95	14.97	3.23	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C96	14.97	3.12	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C97	14.97	3.02	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C98	14.97	2.92	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C99	14.97	2.83	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C100	14.97	2.73	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
C101	14.97	2.62	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C102	0.65	1.63	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C103	0.65	1.46	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C104	0.65	1.19	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C105	0.65	1.02	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C106	0.72	1.82	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C107	0.72	0.51	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C108	0.83	13.72	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C109	0.83	13.51	Farnell 722-042	47pF NPO Capacitor, 0603
*C110	0.84	13.21	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C111	0.84	12.74	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C112	0.84	12.29	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C113	0.84	11.82	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C114	0.84	11.36	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C115	0.84	10.89	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C116	0.84	10.42	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C117	0.89	1.82	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C118	0.89	0.51	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C119	0.91	3.37	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*C120	0.91	2.84	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C121	0.91	2.31	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C122	0.94	5.84	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C123	0.94	5.12	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C124	0.94	4.14	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C125	0.99	9.47	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C126	1.11	5.84	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C127	1.11	5.12	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C128	1.11	4.14	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C129	1.28	9.68	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C130	1.32	13.90	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C131	1.32	13.48	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C132	1.32	13.02	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C133	1.32	12.55	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C134	1.32	12.09	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C135	1.32	11.62	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C136	1.32	11.15	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C137	1.32	10.69	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C138	1.32	10.23	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C139	1.63	11.85	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C140	1.63	11.32	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C141	1.63	10.79	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C142	1.64	9.71	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C143	1.65	3.10	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C144	1.65	2.58	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C145	1.66	12.38	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C146	1.73	12.97	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C147	1.73	12.86	RS 298-9258	100pF SMD Capacitor, 0805, COG Dielectric, 100V
*C148	1.73	12.66	RS 298-9258	100pF SMD Capacitor, 0805, COG Dielectric, 100V
*C149	1.73	3.44	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C150	1.77	2.73	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*C151	1.81	3.10	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C152	1.81	2.58	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C153	2.06	5.21	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C154	2.35	9.56	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C155	2.35	9.39	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C156	2.63	13.32	Farnell 722-080	100pF NPO Capacitor, 0603
*C157	2.73	13.41	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C158	2.88	11.37	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C159	2.88	11.28	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C160	2.94	5.42	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C161	3.10	13.11	AVX-KYOCERA CM21X7R334K16VAT	330nF SMD Capacitor, 0805
*C162	3.10	13.44	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C163	3.18	11.28	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C164	3.18	11.15	CC0603HY5V103ZTR	10nF SMD Capacitor, 0603
*C165	3.29	13.20	Farnell 722-080	100pF NPO Capacitor, 0603
*C166	3.39	11.32	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C167	3.39	11.21	CC0603HY5V103ZTR	10nF SMD Capacitor, 0603
*C168	3.50	13.11	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C169	3.77	9.76	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C170	3.69	13.11	Farnell 722-080	100pF NPO Capacitor, 0603
*C171	3.76	13.11	Farnell 722-080	100pF NPO Capacitor, 0603
*C172	3.83	11.37	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C173	3.83	11.28	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C174	3.90	13.72	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C175	3.90	12.60	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C176	3.90	12.07	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C177	3.98	13.72	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C178	3.98	12.60	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C179	3.98	12.07	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C180	4.38	14.06	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C181	4.38	13.98	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*C182	4.38	12.74	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C183	4.38	12.65	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C184	4.38	11.41	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C185	4.38	11.33	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C186	4.73	9.61	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C187	4.64	10.74	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C188	4.64	10.62	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C189	4.64	10.46	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C190	4.64	10.34	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C191	4.80	12.38	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C192	4.80	11.99	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C193	4.80	13.15	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C194	4.81	13.73	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C195	4.83	13.32	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C196	1.29	6.52	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C197	4.91	12.91	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C198	4.91	12.83	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C199	4.91	11.41	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C200	4.91	11.33	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C201	5.03	10.74	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C202	5.03	10.62	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C203	5.03	10.46	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C204	5.03	10.34	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C205	5.25	11.47	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C206	5.25	11.36	CC0603HY5V103ZTR	10nF SMD Capacitor, 0603
*C207	5.41	9.61	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C208	5.43	12.83	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C209	5.43	12.34	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C210	5.43	12.26	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C211	5.46	11.53	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C212	5.46	11.40	CC0603HY5V103ZTR	10nF SMD Capacitor, 0603

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*C213	6.15	9.32	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C214	6.15	9.26	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C215	6.26	8.69	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C216	6.26	8.49	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C217	6.32	9.09	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C218	6.39	9.09	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C219	6.42	9.70	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C220	6.46	12.62	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C221	6.46	11.30	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C222	6.46	9.09	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C223	6.50	9.70	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C224	6.54	9.09	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C225	6.57	9.70	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C226	6.64	9.70	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C227	6.65	8.69	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C228	6.65	8.49	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C229	6.66	9.85	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C230	6.72	9.85	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C231	6.76	9.32	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C232	6.76	9.26	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C233	6.96	13.40	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C234	6.96	13.32	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C235	6.96	12.05	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C236	6.96	11.97	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C237	7.56	9.73	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C238	7.44	12.16	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C239	7.44	11.76	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C240	7.50	13.40	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C241	7.50	13.32	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C242	7.56	9.39	Farnell 578-149	10nF SMD Capacitor, 0402
*C243	7.64	9.39	Farnell 578-149	10nF SMD Capacitor, 0402

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*C244	7.72	9.49	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C245	7.72	9.43	Farnell 578-149	10nF SMD Capacitor, 0402
*C246	7.72	9.36	Farnell 578-149	10nF SMD Capacitor, 0402
*C247	7.72	9.29	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C248	7.76	9.54	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C249	7.76	9.24	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C250	7.78	10.84	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C251	7.78	10.45	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C252	7.80	12.16	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C253	7.83	9.54	Farnell 578-149	10nF SMD Capacitor, 0402
*C254	7.83	9.24	Farnell 578-149	10nF SMD Capacitor, 0402
*C255	7.87	9.83	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C256	7.87	9.71	Farnell 578-149	10nF SMD Capacitor, 0402
*C257	7.87	9.63	Farnell 578-149	10nF SMD Capacitor, 0402
*C258	7.87	9.16	Farnell 578-149	10nF SMD Capacitor, 0402
*C259	7.87	9.08	Farnell 578-149	10nF SMD Capacitor, 0402
*C260	7.87	8.95	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C261	7.92	9.54	Farnell 578-149	10nF SMD Capacitor, 0402
*C262	7.92	9.24	Farnell 578-149	10nF SMD Capacitor, 0402
*C263	7.98	10.84	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C264	7.98	10.45	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C265	7.98	9.54	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C266	7.98	9.24	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C267	8.02	9.49	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C268	8.02	9.43	Farnell 578-149	10nF SMD Capacitor, 0402
*C269	8.02	9.36	Farnell 578-149	10nF SMD Capacitor, 0402
*C270	8.02	9.29	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C271	8.04	13.40	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C272	8.04	13.32	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805
*C273	8.11	9.39	Farnell 578-149	10nF SMD Capacitor, 0402
*C274	8.19	9.39	Farnell 578-149	10nF SMD Capacitor, 0402

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*C275	8.31	9.39	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C276	8.90	12.07	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C277	8.90	12.00	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C278	9.05	9.65	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C279	9.07	11.83	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C280	9.14	11.83	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C281	9.18	12.44	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C282	9.21	11.83	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C283	9.24	12.44	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C284	9.26	13.49	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C285	9.29	11.83	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C286	9.32	12.44	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C287	9.39	12.44	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C288	9.40	12.59	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C289	9.47	12.59	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C290	9.51	12.07	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C291	9.51	12.00	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C292	9.60	10.68	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C293	9.60	9.74	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C294	10.19	8.71	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C295	10.29	12.16	Farnell 578-149	10nF SMD Capacitor, 0402
*C296	10.34	9.16	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C297	10.37	12.16	Farnell 578-149	10nF SMD Capacitor, 0402
*C298	10.45	12.27	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C299	10.45	12.20	Farnell 578-149	10nF SMD Capacitor, 0402
*C300	10.45	12.13	Farnell 578-149	10nF SMD Capacitor, 0402
*C301	10.45	12.06	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C302	10.49	12.31	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C303	10.49	12.02	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C304	10.55	12.31	Farnell 578-149	10nF SMD Capacitor, 0402
*C305	10.55	12.02	Farnell 578-149	10nF SMD Capacitor, 0402

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*C306	10.60	12.61	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C307	10.60	12.48	Farnell 578-149	10nF SMD Capacitor, 0402
*C308	10.60	12.40	Farnell 578-149	10nF SMD Capacitor, 0402
*C309	10.60	11.93	Farnell 578-149	10nF SMD Capacitor, 0402
*C310	10.60	11.85	Farnell 578-149	10nF SMD Capacitor, 0402
*C311	10.60	11.72	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C312	10.64	12.31	Farnell 578-149	10nF SMD Capacitor, 0402
*C313	10.64	12.02	Farnell 578-149	10nF SMD Capacitor, 0402
*C314	10.71	12.31	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C315	10.71	12.02	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C316	10.75	12.27	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C317	10.75	12.20	Farnell 578-149	10nF SMD Capacitor, 0402
*C318	10.75	12.13	Farnell 578-149	10nF SMD Capacitor, 0402
*C319	10.75	12.06	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V
*C320	10.84	12.16	Farnell 578-149	10nF SMD Capacitor, 0402
*C321	10.91	12.16	Farnell 578-149	10nF SMD Capacitor, 0402
*C322	11.28	11.25	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C323	11.28	11.05	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C324	11.67	11.25	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C325	11.67	11.05	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C326	12.03	13.78	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C327	12.03	13.57	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C328	12.03	13.05	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C329	12.03	12.85	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C330	12.03	12.32	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C331	12.03	12.12	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C332	12.03	11.60	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C333	12.03	11.40	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C334	12.03	10.88	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C335	12.03	10.68	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C336	12.13	8.85	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*C337	12.33	8.85	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C338	12.42	13.78	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C339	12.42	13.57	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C340	12.42	13.05	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C341	12.42	12.85	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C342	12.42	12.32	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C343	12.42	12.12	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C344	12.42	11.60	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C345	12.42	11.40	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C346	12.42	10.88	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C347	12.42	10.68	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C348	12.77	2.14	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C349	12.88	2.74	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C350	13.16	11.88	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C351	13.22	1.98	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C352	13.24	11.62	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C353	13.25	13.93	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C354	13.47	12.31	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C355	13.47	11.97	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C356	13.69	2.11	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C357	13.70	11.88	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C358	13.75	2.72	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C359	13.77	2.54	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C360	13.78	1.45	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603
*C361	13.79	1.63	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C362	13.80	14.12	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C363	13.80	11.62	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C364	13.80	0.94	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805
*C365	13.80	0.45	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C366	13.80	3.67	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C367	13.80	3.48	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*C368	13.97	2.85	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C369	13.97	2.50	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C370	13.99	1.75	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C371	13.99	1.42	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C372	14.20	3.67	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C373	14.20	3.48	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C374	14.20	2.72	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C375	14.22	1.63	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C376	14.22	11.88	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C377	14.22	10.72	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C378	14.32	14.12	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C379	14.32	7.82	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C380	14.75	11.88	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C381	14.75	10.72	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C382	14.77	7.82	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C383	14.85	6.82	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*C384	14.88	1.80	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
*CI1	5.43	12.91	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603
D1	0.81	9.28	Farnell 368-106	1N4148PS, Small Signal Diode
DS1	0.30	13.72	Schroff 69004-287	Bi-Level Low Current Green/Green 3.2mm LED
DS2	0.30	13.50	Schroff 69004-287	Bi-Level Low Current Green/Green 3.2mm LED
DS3	0.30	13.28	Schroff 69004-127	Bi-Level Standard Red/Green 3.2mm LED
DS4	0.30	13.05	Schroff 69004-126	Bi-Level Standard Yellow/Yellow 3.2mm LED
DS5	0.30	12.82	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED
DS6	0.30	12.60	Schroff 69004-126	Bi-Level Standard Yellow/Yellow 3.2mm LED
DS7	0.30	12.38	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED
DS8	0.30	12.15	Schroff 69004-125	Bi-Level Standard Green/Green 3.2mm LED
DS9	0.30	11.93	Schroff 69004-125	Bi-Level Standard Green/Green 3.2mm LED
DS10	0.30	11.70	Schroff 69004-125	Bi-Level Standard Green/Green 3.2mm LED
DS11	0.30	11.35	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED
DS12	0.30	11.12	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
DS13	0.30	10.90	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED
DS14	0.30	10.68	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED
DS15	0.30	10.45	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED
DS16	0.30	10.22	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED
DS17	0.30	10.00	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED
DS18	0.30	9.78	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED
DS19	2.56	5.32	Aligent Technologies HSMD-S660	Rt-Ang Surface Mount Orange LED
DS20	2.56	5.09	Aligent Technologies HSMD-S660	Rt-Ang Surface Mount Orange LED
DS21	6.97	9.71	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS22	7.12	8.14	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS23	7.22	8.14	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS24	7.33	8.14	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS25	7.42	8.14	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS26	7.53	8.14	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS27	7.62	8.14	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS28	7.72	8.14	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS29	7.83	8.14	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS30	9.70	12.47	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS31	9.85	13.42	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS32	9.95	13.42	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS33	10.05	13.42	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS34	10.15	13.42	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS35	10.25	13.42	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS36	10.35	13.42	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS37	10.45	13.42	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
DS38	10.55	13.42	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric
FS1	12.26	5.63	RS 344-5103	10A SMD Fuse in Holder, OMF63 Series
FS2	14.65	10.38	RS 344-5096	5A SMD Fuse in Holder, OMF63 Series
FS3	14.65	10.03	RS 344-5103	10A SMD Fuse in Holder, OMF63 Series
FS4	14.65	9.68	RS 344-5096	5A SMD Fuse in Holder, OMF63 Series
FS5	14.65	9.31	RS 344-5096	5A SMD Fuse in Holder, OMF63 Series

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
J1	15.54	14.02	Harting 02011602101	160way Rt-Ang Plug Har-Bus 64 System
J2	15.54	8.77	Harting 02011602101	160way Rt-Ang Plug Har-Bus 64 System
J3	15.54	3.52	Harting 02011602101	160way Rt-Ang Plug Har-Bus 64 System
J4B	3.73	9.66	Molex 87331-1420	Molex Straight 2mm pitch 2x7 pin Header, PTH
J4A	4.21	9.87	Harwin M20-999 09 05	Harwin Straight 9 pin Header
JAUX	15.54	10.29	Erni(Stuc3) 30-M-ABC	30way Rt-Ang PCB Plug
LK1	0.59	2.35	Harwin M20-999 03 05	Harwin Straight 3 pin Header
LK2	1.25	3.42	Harwin M20-999 03 05	Harwin Straight 3 pin Header
LK3	1.25	2.90	Harwin M20-999 03 05	Harwin Straight 3 pin Header
LK4	1.25	2.38	Harwin M20-999 03 05	Harwin Straight 3 pin Header
LK5	1.40	3.42	Harwin M20-999 03 05	Harwin Straight 3 pin Header
LK6	1.40	2.90	Harwin M20-999 03 05	Harwin Straight 3 pin Header
LK7	1.43	5.12	Harwin M20-999 04 05	Harwin Straight 4 pin Header
LK8	2.50	11.90	Comatel 3000500	2 pin 0.6 inch pitch Jumper
LK9	2.50	3.10	Comatel 3000500	2 pin 0.6 inch pitch Jumper
LK18	7.60	7.80	Comatel 3000500	2 pin 0.6 inch pitch Jumper
LK43	12.70	11.90	Comatel 3000500	2 pin 0.6 inch pitch Jumper
LK44	12.70	3.10	Comatel 3000500	2 pin 0.6 inch pitch Jumper
PL1	0.45	0.97	3M 3408-D303	32-Pin Condo double-header, PCB RT-ANG
PL2	0.51	0.34	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL7	0.70	0.34	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL16	0.91	0.34	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL25	1.10	0.34	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL30	1.13	2.02	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL31	1.13	1.89	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL32	1.13	1.75	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL41	1.41	1.78	Harwin M20-999 03 05	Harwin Straight 3 pin Header
PL50	1.56	1.99	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL51	1.56	1.89	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL52	1.56	1.78	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL73	2.10	13.80	Harwin M20-999 20 05	Harwin Straight 1 pin Header

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
PL74	2.10	10.20	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL75	2.10	5.70	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL76	2.10	1.30	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL117	4.67	13.15	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL118	5.24	9.77	Harwin M20-999 03 05	Harwin Straight 3 pin Header
PL119	5.88	9.55	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL120	6.00	13.80	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL121	6.00	10.20	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL122	6.00	8.86	Harwin M20-999 03 05	Harwin Straight 3 pin Header
PL123	7.01	10.23	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL124	7.12	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL125	7.22	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL126	7.33	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL127	7.42	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL128	7.53	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL129	7.62	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL130	7.72	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL131	7.83	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL132	7.92	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL133	8.03	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL134	8.12	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL135	8.22	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL136	8.32	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL137	8.43	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL138	8.53	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL139	8.54	11.63	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL140	8.62	8.42	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL141	9.64	11.63	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL142	9.70	13.80	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL143	9.85	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL144	9.95	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
PL145	10.00	10.20	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL146	10.05	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL147	10.15	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL148	10.25	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL149	10.35	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL150	10.45	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL151	10.55	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL152	10.65	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL153	10.75	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL154	10.87	13.56	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL155	10.85	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL156	10.95	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL157	11.05	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL158	11.09	7.35	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL159	11.15	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL160	11.20	13.55	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL161	11.25	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL162	11.35	13.14	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL163	11.43	10.53	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL164	12.88	13.72	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL165	13.00	1.30	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL166	12.91	2.90	Harwin M20-999 03 05	Harwin Straight 3 pin Header
PL167	13.11	2.65	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL168	13.11	2.54	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL169	13.20	10.20	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL170	13.15	2.13	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL171	13.70	7.20	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL172	14.37	0.70	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL173	14.37	0.30	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL174	14.50	4.30	Harwin M20-999 20 05	Harwin Straight 1 pin Header
PL175	14.65	2.25	Harwin M20-999 02 05	Harwin Straight 2 pin Header

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
PL176	14.75	2.12	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL177	14.65	1.98	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL178	14.65	1.57	Harwin M20-999 02 05	Harwin Straight 2 pin Header
PL179	14.80	13.78	Harwin M20-999 20 05	Harwin Straight 1 pin Header
R1	0.45	13.82	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R2	0.45	13.72	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R3	0.45	13.60	Farnell 613-034	330R SMD Resistor, 0.1W, 0805
R4	0.45	13.50	Farnell 613-095	1K0 SMD Resistor, 0.1W, 0805
R5	0.45	13.38	Farnell 613-071	680R SMD Resistor, 0.1W, 0805
R6	0.45	13.28	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R7	0.45	13.15	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R8	0.45	13.05	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R9	0.45	12.93	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R10	0.45	12.82	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R11	0.45	12.70	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R12	0.45	12.60	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R13	0.45	12.47	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R14	0.45	12.38	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R15	0.45	12.25	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R16	0.45	12.15	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R17	0.45	12.03	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R18	0.45	11.93	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R19	0.45	11.80	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R20	0.45	11.70	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R21	0.45	11.45	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R22	0.45	11.35	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R23	0.45	11.22	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R24	0.45	11.12	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R25	0.45	11.00	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R26	0.45	10.90	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R27	0.45	10.78	Farnell 613-058	470R SMD Resistor, 0.1W, 0805

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
R28	0.45	10.68	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R29	0.45	10.55	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R30	0.45	10.45	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R31	0.45	10.32	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R32	0.45	10.22	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R33	0.45	10.10	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R34	0.45	10.00	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R35	0.45	9.88	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R36	0.45	9.78	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R37	0.56	6.43	Farnell 911-082	56R SMD Resistor, 0.063W, 0603
R38	0.56	6.21	Farnell 911-082	56R SMD Resistor, 0.063W, 0603
R39	0.56	5.99	Farnell 911-082	56R SMD Resistor, 0.063W, 0603
R40	0.56	5.76	Farnell 911-082	56R SMD Resistor, 0.063W, 0603
R41	0.56	5.45	Farnell 911-082	56R SMD Resistor, 0.063W, 0603
R42	0.56	5.09	Farnell 911-082	56R SMD Resistor, 0.063W, 0603
R43	0.56	4.75	Farnell 911-082	56R SMD Resistor, 0.063W, 0603
R44	0.67	9.68	Rohm MCR03EZHZJ102	1K0 SMD Resistor, 0.1W, 0603
R45	0.67	9.57	Rohm MCR03EZHZJ101	100R SMD Resistor, 0.1W, 0603
R46	0.68	3.59	Rohm MCR03EZHZJ102	1K0 SMD Resistor, 0.1W, 0603
R47	0.68	3.06	Rohm MCR03EZHZJ102	1K0 SMD Resistor, 0.1W, 0603
R48	0.78	5.22	Farnell 911-197	470R SMD Resistor, 0.063W, 0603
R49	0.80	6.34	Farnell 911-082	56R SMD Resistor, 0.063W, 0603
R50	0.91	3.77	Rohm MCR03EZHZJ102	1K0 SMD Resistor, 0.1W, 0603
R51	0.91	3.25	Rohm MCR03EZHZJ102	1K0 SMD Resistor, 0.1W, 0603
R52	0.91	2.73	Rohm MCR03EZHZJ102	1K0 SMD Resistor, 0.1W, 0603
R53	0.96	5.53	Farnell 911-197	470R SMD Resistor, 0.063W, 0603
R54	1.09	5.75	Farnell 911-197	470R SMD Resistor, 0.063W, 0603
R55	1.20	5.04	Farnell 911-197	470R SMD Resistor, 0.063W, 0603
R56	1.27	6.07	Farnell 911-197	470R SMD Resistor, 0.063W, 0603
R57	1.27	5.34	Farnell 911-197	470R SMD Resistor, 0.063W, 0603
R58	1.54	5.17	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
R59	2.71	5.33	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R60	2.71	5.09	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
R61	2.94	5.60	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
R62	2.94	4.82	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
R63	3.29	11.39	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
R64	3.29	10.88	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
R65	5.17	13.20	Farnell 613-022	270R SMD Resistor, 0.1W, 0805
R66	5.17	13.11	Farnell 613-022	270R SMD Resistor, 0.1W, 0805
R67	5.36	11.60	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
R68	5.36	11.09	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
R69	5.75	9.41	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R70	5.75	9.32	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R71	5.75	9.22	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R72	5.92	9.41	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R73	6.97	10.10	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R74	6.97	10.01	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R75	6.97	9.91	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R76	6.97	9.63	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
R77	7.14	10.10	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R78	8.51	11.50	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R79	8.51	11.40	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R80	8.51	11.31	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R81	8.68	11.50	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R82	8.93	13.29	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805
R83	8.93	12.99	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805
R84	9.48	12.89	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805
R85	9.61	11.50	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R86	9.61	11.40	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R87	9.61	11.31	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603
R88	9.70	12.39	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
R89	9.78	11.50	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
R90	10.37	9.06	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805
R91	10.37	8.96	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805
R92	10.37	8.86	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805
R93	10.37	8.76	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805
R94	10.37	8.66	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805
R95	10.37	8.56	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805
R96	10.37	8.46	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805
R97	10.37	8.36	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805
R98	10.89	13.66	Farnell 613-174	4.7K SMD Resistor, 0.1W, 0805
R99	11.33	13.65	Farnell 613-174	4.7K SMD Resistor, 0.1W, 0805
R100	11.48	10.64	Rohm MCR03EZJ472	4K7 SMD Resistor, 0.1W, 0603
R101	12.12	9.04	Farnell 613-216	10K SMD Resistor, 0.1W, 0805
R102	12.34	9.04	Farnell 613-216	10K SMD Resistor, 0.1W, 0805
R103	12.69	5.72	Farnell 347-681	100K, 3266W Variable Resistor, 0.25W
R104	12.99	1.92	Farnell 613-174	4.7K SMD Resistor, 0.1W, 0805
R105	12.99	1.75	Farnell 613-174	4.7K SMD Resistor, 0.1W, 0805
R106	13.11	2.40	Farnell 613-095	1K0 SMD Resistor, 0.1W, 0805
R107	13.15	2.75	Farnell 613-290	47K SMD Resistor, 0.1W, 0805
R108	13.20	2.24	Farnell 613-174	4.7K SMD Resistor, 0.1W, 0805
R109	13.59	2.26	Farnell 613-022	270R SMD Resistor, 0.1W, 0805
R110	13.64	1.57	Farnell 612-972	100R SMD Resistor, 0.1W, 0805
R111	13.65	0.21	Farnell 613-174	4.7K SMD Resistor, 0.1W, 0805
R112	14.65	1.77	Rohm MCR03EZJ101	100R SMD Resistor, 0.1W, 0603
*R113	0.10	13.31	Farnell 613-058	470R SMD Resistor, 0.1W, 0805
*R114	0.57	1.86	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R115	0.57	1.78	Farnell 911-150	220R SMD Resistor, 0.063W, 0603
*R116	0.77	2.54	Rohm MCR03EZJ102	1K0 SMD Resistor, 0.1W, 0603
*R117	0.77	1.65	Rohm MCR03EZPF101	100R SMD Resistor, 0.063W, 0603
*R118	0.77	1.44	Rohm MCR03EZPF101	100R SMD Resistor, 0.063W, 0603
*R119	0.77	1.21	Rohm MCR03EZPF101	100R SMD Resistor, 0.063W, 0603
*R120	0.77	1.00	Rohm MCR03EZPF101	100R SMD Resistor, 0.063W, 0603

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*R121	0.79	3.37	Rohm MCR03EZHZJ102	1K0 SMD Resistor, 0.1W, 0603
*R122	0.79	2.84	Rohm MCR03EZHZJ102	1K0 SMD Resistor, 0.1W, 0603
*R123	0.79	2.31	Rohm MCR03EZHZJ102	1K0 SMD Resistor, 0.1W, 0603
*R124	0.80	13.32	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R125	0.83	13.60	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
*R126	0.84	13.13	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R127	0.84	12.91	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R128	0.84	12.67	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R129	0.84	12.44	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R130	0.84	12.21	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R131	0.84	11.97	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R132	0.84	11.74	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R133	0.84	11.51	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R134	0.84	11.28	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R135	0.84	11.04	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R136	0.84	10.81	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R137	0.84	10.57	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R138	0.84	10.35	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R139	0.84	10.11	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R140	0.86	5.94	Farnell 911-197	470R SMD Resistor, 0.063W, 0603
*R141	0.88	13.32	Rohm MCR03EZHZJ102	1K0 SMD Resistor, 0.1W, 0603
*R142	0.96	6.17	Farnell 911-197	470R SMD Resistor, 0.063W, 0603
*R143	1.04	1.68	Rohm MCR03EZPF101	100R SMD Resistor, 0.063W, 0603
*R144	1.04	1.41	Rohm MCR03EZPF101	100R SMD Resistor, 0.063W, 0603
*R145	1.04	1.24	Rohm MCR03EZPF101	100R SMD Resistor, 0.063W, 0603
*R146	1.04	0.96	Rohm MCR03EZPF101	100R SMD Resistor, 0.063W, 0603
*R147	1.09	4.46	Farnell 911-197	470R SMD Resistor, 0.063W, 0603
*R148	1.19	4.29	Farnell 911-197	470R SMD Resistor, 0.063W, 0603
*R149	1.28	9.48	Rohm MCR03EZHZJ103	10K SMD Resistor, 0.1W, 0603
*R150	1.32	13.40	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R151	1.32	13.16	Farnell 911-434	47K SMD Resistor, 0.063W, 0603

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*R152	1.32	12.94	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
*R153	1.32	12.71	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
*R154	1.32	12.47	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R155	1.32	12.24	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R156	1.32	12.01	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R157	1.32	11.78	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R158	1.32	11.54	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R159	1.32	11.31	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R160	1.32	11.08	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
*R161	1.32	10.84	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
*R162	1.32	10.62	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R163	1.32	10.38	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R164	1.32	10.15	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R165	1.32	9.93	Farnell 911-434	47K SMD Resistor, 0.063W, 0603
*R166	1.64	9.56	Farnell 613-290	47K SMD Resistor, 0.1W, 0805
*R167	1.74	6.50	Farnell 613-216	10K SMD Resistor, 0.1W, 0805
*R168	1.83	6.89	Farnell 613-216	10K SMD Resistor, 0.1W, 0805
*R169	1.83	6.50	Farnell 613-216	10K SMD Resistor, 0.1W, 0805
*R170	1.94	6.89	Farnell 613-216	10K SMD Resistor, 0.1W, 0805
*R171	1.94	6.50	Rohm MCR03EZHZJ103	10K SMD Resistor, 0.1W, 0603
*R172	1.96	9.35	Rohm MCR03EZHZJ101	100R SMD Resistor, 0.1W, 0603
*R173	5.41	9.52	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
*R174	6.15	9.18	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
*R175	6.25	9.09	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
*R176	6.36	9.23	Rohm MCR03EZHZJ332	3K3 SMD Resistor, 0.1W, 0603
*R177	7.38	9.13	Farnell 195-030	1K0 SMD Resistor, 0.063W, 0402
*R178	7.38	9.06	Farnell 195-110	4K7 SMD Resistor, 0.063W, 0402
*R179	7.38	9.00	Farnell 195-030	1K0 SMD Resistor, 0.063W, 0402
*R180	8.11	10.84	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
*R181	8.90	11.93	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603
*R182	8.99	11.83	Rohm MCR03EZHZJ472	4K7 SMD Resistor, 0.1W, 0603

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*R183	9.02	10.68	Farnell 613-216	10K SMD Resistor, 0.1W, 0805
*R184	9.11	11.98	Rohm MCR03EZHZJ332	3K3 SMD Resistor, 0.1W, 0603
*R185	10.07	12.21	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R186	10.07	12.12	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
*R187	11.13	12.12	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R188	11.13	12.21	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
*R189	7.36	9.55	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R190	7.36	9.46	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
*R191	7.39	9.32	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R192	7.29	9.32	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
*R193	8.38	9.55	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R194	8.38	9.62	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
*R195	1.09	13.71	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R196	1.09	13.79	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
*R197	1.94	5.21	Farnell 911-161	270R SMD Resistor, 0.063W, 0603
*R198	1.86	5.21	Rohm MCR03EZHZJ181	180R SMD Resistor, 0.1W, 0603
*R199	2.02	5.33	Farnell 911-161	270R SMD Resistor, 0.063W, 0603
*R200	2.02	5.40	Rohm MCR03EZHZJ181	180R SMD Resistor, 0.1W, 0603
*R201	1.81	5.33	Farnell 911-161	270R SMD Resistor, 0.063W, 0603
*R202	1.81	5.40	Rohm MCR03EZHZJ181	180R SMD Resistor, 0.1W, 0603
*R203	14.37	0.55	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R204	14.37	0.63	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
*R205	5.14	12.04	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R206	5.14	11.96	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
*R207	5.14	12.25	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R208	5.14	12.32	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
*R209	2.63	11.40	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R210	2.71	11.40	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
*R211	3.62	14.11	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R212	3.54	14.11	Rohm MCR03EZHZJ221	220R SMD Resistor, 0.1W, 0603
*R213	1.50	12.77	Farnell 612-388	150R SMD Resistor, 0.063W, 0603

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*R214	1.98	12.74	Farnell 612-388	150R SMD Resistor, 0.063W, 0603
*R215	1.50	12.87	Rohm MCR03EZHZ221	220R SMD Resistor, 0.1W, 0603
*R216	1.98	12.81	Rohm MCR03EZHZ221	220R SMD Resistor, 0.1W, 0603
RN1	7.28	8.02	Farnell 776-660	220R, ARC241, 4-isolated Resistors, 0.062W
RN2	7.67	8.02	Farnell 776-660	220R, ARC241, 4-isolated Resistors, 0.062W
RN3	13.86	3.03	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN4	13.88	1.94	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN5	13.89	2.32	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN6	13.91	1.24	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN7	14.06	3.03	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN8	14.08	1.94	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN9	14.09	2.32	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN10	14.11	1.24	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN11	14.32	2.79	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN12	14.32	2.59	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN13	14.35	1.70	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN14	14.35	1.50	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W
RN15	14.43	3.80	Farnell 776-762	10K, ARC241, 4-isolated Resistors, 0.062W
RN16	14.43	3.65	Farnell 776-762	10K, ARC241, 4-isolated Resistors, 0.062W
RN17	14.43	3.50	Farnell 776-762	10K, ARC241, 4-isolated Resistors, 0.062W
RN18	14.43	3.35	Farnell 776-762	10K, ARC241, 4-isolated Resistors, 0.062W
*RN19	0.76	2.00	Farnell 776-683	470R, ARC241, 4-isolated Resistors, 0.062W
*RN20	0.76	0.68	Farnell 776-683	470R, ARC241, 4-isolated Resistors, 0.062W
*RN21	0.84	2.00	Farnell 776-683	470R, ARC241, 4-isolated Resistors, 0.062W
*RN22	0.85	0.68	Farnell 776-683	470R, ARC241, 4-isolated Resistors, 0.062W
*RN23	1.69	3.27	Farnell 307-0165	390R, ARC241, 4-isolated Resistors, 0.062W
*RN24	1.69	2.74	Farnell 307-0165	390R, ARC241, 4-isolated Resistors, 0.062W
*RN25	1.73	11.85	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN26	1.73	11.32	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN27	1.73	10.79	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN28	1.75	12.38	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
*RN29	1.77	3.27	Farnell 307-0165	390R, ARC241, 4-isolated Resistors, 0.062W
*RN30	4.61	9.41	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN31	4.76	9.34	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN32	4.78	12.27	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN33	4.78	12.11	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN34	4.80	13.61	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN35	4.80	13.45	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN36	6.46	12.93	Farnell 776-701	1K, ARC241, 4-isolated Resistors, 0.062W
*RN37	6.46	12.77	Farnell 776-701	1K, ARC241, 4-isolated Resistors, 0.062W
*RN38	6.46	11.60	Farnell 776-701	1K, ARC241, 4-isolated Resistors, 0.062W
*RN39	6.46	11.44	Farnell 776-701	1K, ARC241, 4-isolated Resistors, 0.062W
*RN40	9.05	9.53	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN41	9.99	13.55	Farnell 776-660	220R, ARC241, 4-isolated Resistors, 0.062W
*RN42	10.19	8.91	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN43	10.19	8.51	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN44	10.40	13.55	Farnell 776-660	220R, ARC241, 4-isolated Resistors, 0.062W
*RN45	13.47	12.46	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN46	13.47	12.12	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W
*RN47	13.93	0.20	Farnell 776-658	150R, ARC241, 4-isolated Resistors, 0.062W
*RN48	13.93	0.34	Farnell 776-660	220R, ARC241, 4-isolated Resistors, 0.062W
*RN49	14.12	0.20	Farnell 776-658	150R, ARC241, 4-isolated Resistors, 0.062W
*RN50	14.12	0.34	Farnell 776-660	220R, ARC241, 4-isolated Resistors, 0.062W
SK1	0.30	8.96	Lemo EPG.302.HLN	Lemo Socket, 2 Female PCB Mount
SK2	0.35	7.20	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK3	0.35	6.85	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK4	0.35	6.50	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK5	0.35	6.15	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK6	0.35	5.80	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK7	0.35	5.45	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK8	0.35	5.10	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK9	0.35	4.75	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
SK10	0.35	3.85	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK11	0.35	3.50	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK12	0.35	3.15	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK13	0.35	2.80	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK14	0.35	2.45	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount
SK15	0.55	4.35	Lemo EPG.302.HLN	Lemo Socket, 2 Female PCB Mount
SW1	0.33	9.56	RS 664-389	SPST Right-Angle Momentary Switch
SW2	0.33	9.31	RS 664-389	SPST Right-Angle Momentary Switch
SW3	1.83	12.38	Farnell 146-199	Sealed PCB Mount Vert Rotary Hex Switch
SW4	1.83	11.85	Farnell 146-199	Sealed PCB Mount Vert Rotary Hex Switch
SW5	1.83	11.32	Farnell 146-199	Sealed PCB Mount Vert Rotary Hex Switch
SW6	1.83	10.79	Farnell 146-199	Sealed PCB Mount Vert Rotary Hex Switch
SW7	4.80	12.18	Thomas & Betts GDH06S	6way SMD Half Pitch Switch
SW8	4.81	13.54	Thomas & Betts GDH06S	6way SMD Half Pitch Switch
SW9	6.46	12.85	Thomas & Betts GDH06S	6way SMD Half Pitch Switch
SW10	6.46	11.52	Thomas & Betts GDH06S	6way SMD Half Pitch Switch
SW11	9.04	9.39	Farnell 146-199	Sealed PCB Mount Vert Rotary Hex Switch
TR1	0.66	6.49	Farnell 358-010	General Purpose Switching NPN Transistor
TR2	0.66	6.26	Farnell 358-010	General Purpose Switching NPN Transistor
TR3	0.66	6.04	Farnell 358-010	General Purpose Switching NPN Transistor
TR4	0.66	5.82	Farnell 358-010	General Purpose Switching NPN Transistor
TR5	0.66	5.50	Farnell 358-010	General Purpose Switching NPN Transistor
TR6	0.66	5.14	Farnell 358-010	General Purpose Switching NPN Transistor
TR7	0.66	4.80	Farnell 358-010	General Purpose Switching NPN Transistor
TR8	0.90	6.39	Farnell 358-010	General Purpose Switching NPN Transistor
U1	0.81	1.99	Motorola MC10H124FN	Quad TTL to ECL Translator
U2	0.81	1.54	Motorola MC10H125FN	Quad ECL to TTL Translator
U3	0.81	1.10	Motorola MC10H125FN	Quad ECL to TTL Translator
U4	0.81	0.67	Motorola MC10H124FN	Quad TTL to ECL Translator
U5	0.83	13.50	TI SN74LS123D	SMD Dual Monostable
U6	0.84	12.98	TI SN74LS123D	SMD Dual Monostable

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
U7	0.84	12.52	TI SN74LS123D	SMD Dual Monostable
U8	0.84	12.06	TI SN74LS123D	SMD Dual Monostable
U9	0.84	11.60	TI SN74LS123D	SMD Dual Monostable
U10	0.84	11.13	TI SN74LS123D	SMD Dual Monostable
U11	0.84	10.66	TI SN74LS123D	SMD Dual Monostable
U12	0.84	10.20	TI SN74LS123D	SMD Dual Monostable
U13	0.93	3.52	Motorola MC10192FN	Quad Bus Driver
U14	0.93	3.00	Motorola MC10192FN	Quad Bus Driver
U15	0.93	2.48	Motorola MC10192FN	Quad Bus Driver
U16	1.02	6.00	Motorola MC10H125FN	Quad ECL to TTL Translator
U17	1.02	5.28	Motorola MC10H125FN	Quad ECL to TTL Translator
U18	1.02	4.30	Motorola MC10H124FN	Quad TTL to ECL Translator
U19	1.28	9.48	Philips N74F14D	SMD Hex Schmitt-Trigger Inverters
U20	1.32	13.70	Philips N74F74D	SMD Dual D-Type Positive-Edge Trigger Flip-Flops
U21	1.32	13.26	TI SN74LS123D	SMD Dual Monostable
U22	1.32	12.79	TI SN74LS123D	SMD Dual Monostable
U23	1.32	12.32	TI SN74LS123D	SMD Dual Monostable
U24	1.32	11.86	TI SN74LS123D	SMD Dual Monostable
U25	1.32	11.39	TI SN74LS123D	SMD Dual Monostable
U26	1.32	10.93	TI SN74LS123D	SMD Dual Monostable
U27	1.32	10.47	TI SN74LS123D	SMD Dual Monostable
U28	1.32	10.01	TI SN74LS123D	SMD Dual Monostable
U29	1.64	9.48	TI SN74LS123D	SMD Dual Monostable
U30	1.73	12.78	Philips N74F74D	SMD Dual D-Type Positive-Edge Trigger Flip-Flops
U31	1.73	3.27	Motorola MC10H124FN	Quad TTL to ECL Translator
U32	1.73	2.73	Motorola MC10H124FN	Quad TTL to ECL Translator
U33	1.94	5.21	Philips N74F27D	Triple 3-Input NOR Gate, SOIC
U34	2.19	9.48	Motorola MC10H125FN	Quad ECL to TTL Translator
U35	2.78	13.27	ECM GBS-204-80.16-C	80.16MHz Crystal Clock Oscillator
U36	2.81	11.14	Philips 74ABT541D	SMD Octal Buffer, 3-state

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
U37	2.94	5.21	TI SN74LS123D	SMD Dual Monostable
U38	3.29	11.14	ICS ICS581-02	Zero-Delay Glitch Free Clock Multiplexer
U39	3.29	13.43	Philips 74ABT04D	SMD Hex Invertors
U40	3.29	13.11	Philips N74ABT74D	Dual D-Type Flip-Flop
U41	3.70	13.11	Philips N74ABT74D	Dual D-Type Flip-Flop
U42	3.76	13.79	Philips 74ABT541D	SMD Octal Buffer, 3-state
U43	3.76	12.66	Philips 74ABT541D	SMD Octal Buffer, 3-state
U44	3.76	12.14	Philips 74ABT541D	SMD Octal Buffer, 3-state
U45	3.76	11.14	Philips 74ABT541D	SMD Octal Buffer, 3-state
U46	4.31	13.52	Data Delay Devices PDU-16F-.5A4	6 Bit Programmable Delay Unit, TTL 0.5nS Steps, Gull-Wing
U47	4.31	12.19	Data Delay Devices PDU-16F-.5A4	6 Bit Programmable Delay Unit, TTL 0.5nS Steps, Gull-Wing
U48	4.31	10.87	Data Delay Devices PDU-16F-.5A4	6 Bit Programmable Delay Unit, TTL 0.5nS Steps, Gull-Wing
U49	4.68	9.38	Philips 74LVT244AD	3-State Low Voltage Octal Buffer
U50	4.83	12.69	Philips 74ABT541D	SMD Octal Buffer, 3-state
U51	4.83	11.19	Philips 74ABT541D	SMD Octal Buffer, 3-state
U52	4.83	10.54	Philips 74LVT16244BDL	3.3V 16-bit Buffer/Line Driver
U54	4.91	13.15	Motorola MC100ELT20D	TTL to Differential PECL Translator
U55	5.34	9.38	Philips 74LVT244AD	3-State Low Voltage Octal Buffer
U56	5.36	12.69	Philips 74ABT541D	SMD Octal Buffer, 3-state
U57	5.36	12.12	Philips 74ABT541D	SMD Octal Buffer, 3-state
U58	5.36	11.34	ICS ICS581-02	Zero-Delay Glitch Free Clock Multiplexer
U59	6.46	9.39	Xilinx XC18V04PC44C	Xilinx In-System Programmable Configuration PROM
U60	6.46	8.59	Philips 74LVT16244BDL	3.3V 16-bit Buffer/Line Driver
U61	6.90	12.85	Data Delay Devices PDU-16F-.5A4	6 Bit Programmable Delay Unit, TTL 0.5nS Steps, Gull-Wing
U62	6.90	11.51	Data Delay Devices PDU-16F-.5A4	6 Bit Programmable Delay Unit, TTL 0.5nS Steps, Gull-Wing
U63	7.44	12.85	Data Delay Devices PDU-16F-.5A4	6 Bit Programmable Delay Unit, TTL 0.5nS Steps, Gull-Wing
U64	7.44	11.97	Philips N74ABT74D	Dual D-Type Flip-Flop
U65	7.44	11.57	Philips N74F11D	Triple 3-Input AND Gate
U66	7.80	11.97	Philips 74ABT08D	SMD Quad 2-input AND Gate

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OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
U67	7.46	8.98	Xilinx XC2S600E-7FG456C	Xilinx Spartan-IIE 1.8V FPGA
U68	7.88	10.64	Philips 74LVT16244BDL	3.3V 16-bit Buffer/Line Driver
U69	7.97	12.85	Data Delay Devices PDU-16F-.5A4	6 Bit Programmable Delay Unit, TTL 0.5ns Steps, Gull-Wing
U70	9.04	10.38	NSC 74F14PC	Hex Schmitt-Trigger Inverters
U71	9.20	13.20	Newport 50A10500	Active Buffered 10-Tap, 5ns Step Delay Line
U72	9.21	12.13	Xilinx XC18V02PC44C	Xilinx In-System Programmable Configuration PROM
U73	9.56	10.33	Euroquartz SPG8640AN	Programmable Crystal Oscillator
U74	9.56	9.39	Euroquartz SPG8640AN	Programmable Crystal Oscillator
U75	10.38	9.38	Philips 74LVT244AD	3-State Low Voltage Octal Buffer
U76	10.19	11.75	Xilinx XC2S200E-6FG456C	Xilinx Spartan-IIE 1.8V FPGA
U77	11.47	11.15	Philips 74LVT16244BDL	3.3V 16-bit Buffer/Line Driver
U78	12.22	13.68	Philips 74ALVC164245DL	16-Bit Dual Supply Translating Transceiver
U79	12.22	12.95	Philips 74LVT16244BDL	3.3V 16-bit Buffer/Line Driver
U80	12.22	12.22	Philips 74LVT16244BDL	3.3V 16-bit Buffer/Line Driver
U81	12.22	11.50	Philips 74LVT16244BDL	3.3V 16-bit Buffer/Line Driver
U82	12.22	10.78	Philips 74ALVC164245DL	16-Bit Dual Supply Translating Transceiver
U83	11.34	7.45	TRACO TAM 25-2411	25W Single 5V Output DC/DC Converter
U84	12.69	1.83	Philips 74LVT244AD	3-State Low Voltage Octal Buffer
U85	12.86	2.52	Philips 74ABT125D	3-State Quad Buffer
U86	13.20	13.47	Philips N74F541N	Octal Buffers, 3-state outputs
U87	13.20	12.32	TI SN74LS541N	Octal Buffers with 3 State Outputs
U88	13.20	11.18	Philips N74F760N	Octal Buffer (Open-Collector)
U89	13.20	1.75	Philips 74ABT125D	3-State Quad Buffer
U90	13.59	2.11	Motorola MC100ELT20D	TTL to Differential PECL Translator
U91	13.75	13.57	NSC 74F543PC	Octal Registered Transceiver
U92	13.75	12.32	NSC 74F541PC	Octal Buffers, 3-state outputs
U93	13.75	11.32	TI SN74F38N	Quad 2 Input NAND Buffer
U94	13.97	2.67	Synergy SY100E111JC	1:9 Differential Clock Driver With Enable
U95	13.99	1.58	Synergy SY100E111JC	1:9 Differential Clock Driver With Enable
U96	14.00	3.58	Philips 74LVT16244BDL	3.3V 16-bit Buffer/Line Driver

PARTS LIST for: PC3216M TIM-3

OM Job No:

Ref Des *=Underside	Comp Posn (Origin) X Y		Manufacturer & Part No or Supplier's Name & Part No	Part Description
U97	14.03	0.90	Philips 74ABT574D	SMD Octal Edge Triggered D-Type Latches
U98	14.03	0.40	Philips 74ABT574D	SMD Octal Edge Triggered D-Type Latches
U99	14.28	13.57	NSC 74F543PC	Octal Registered Transceiver
U100	14.28	12.32	NSC 74F541PC	Octal Buffers, 3-state outputs
U101	14.28	11.18	NSC 74F541PC	Octal Buffers, 3-state outputs
U102	14.28	7.26	NSC 74F543PC	Octal Registered Transceiver
U103	14.80	12.32	NSC 74F541PC	Octal Buffers, 3-state outputs
U104	14.80	11.18	NSC 74F541PC	Octal Buffers, 3-state outputs
U105	14.80	8.27	NSC 74F541PC	Octal Buffers, 3-state outputs
U106	14.80	6.26	NSC 74F543PC	Octal Registered Transceiver
U107	14.88	1.77	Motorola MC100ELT21D	Differential PECL to TTL Translator
VR1	12.10	9.17	NSC LP3963ES-1.8	3A Fast Ultra Low Dropout Linear Regulator