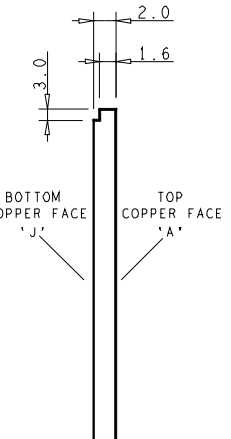
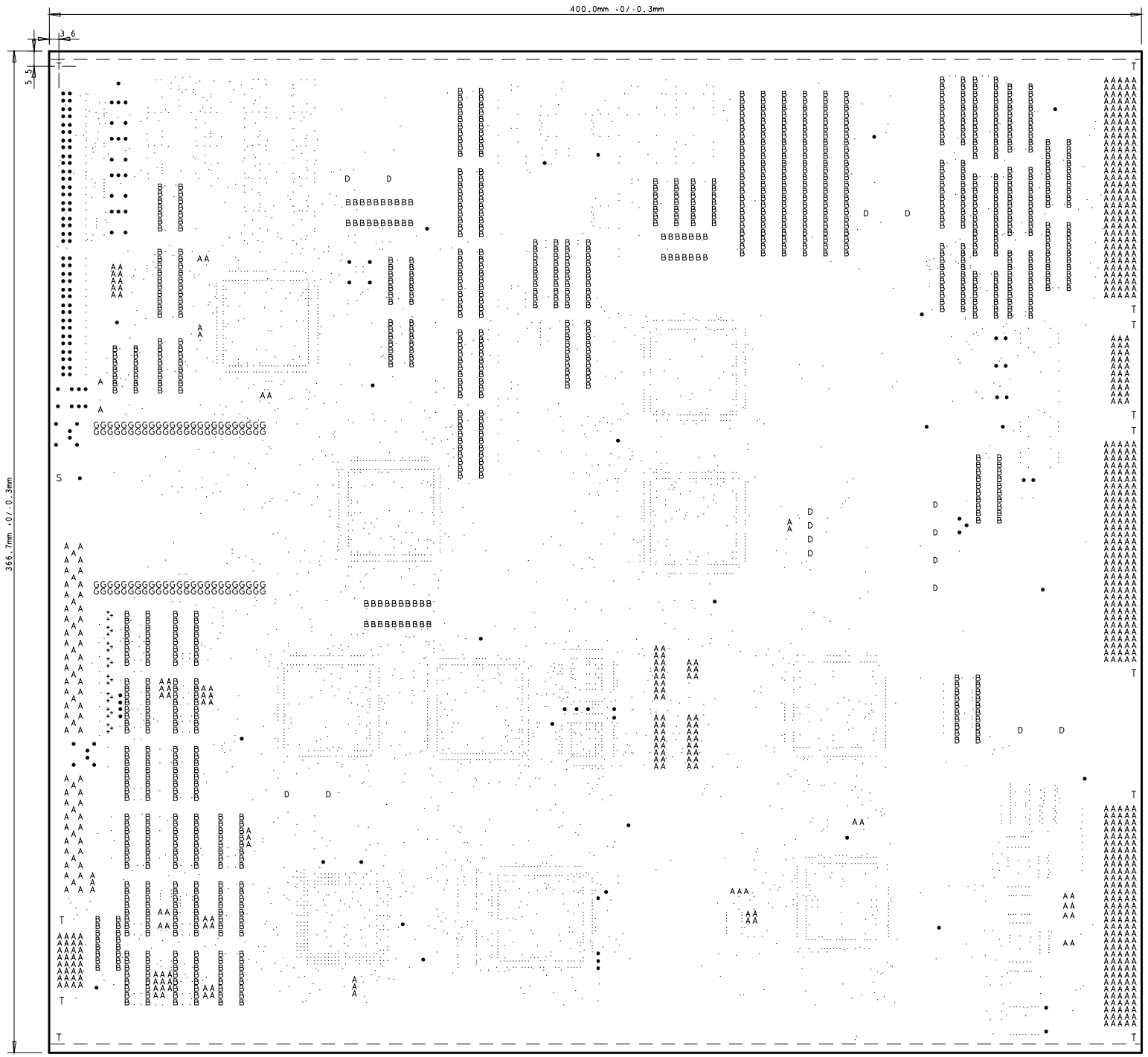
PROJECTION

THIS DRAWING CONFORMS TO B.S. 308

END VIEW OF CARD
NOT TO SCALE





MANUFACTURING NOTES

1. STYLE .- MULTILAYER (10 LAYERS)
2. MATERIAL :- FR4
3. FINISHED BOARD THICKNESS :- 2.0mm WITH TWO EDGES REDUCED TO 1.6mm (SEE END VIEW)
4. BASE COPPER OUTER .- 17 MICRONS
   INNER :- 35 MICRONS
5. FINISH :- IMMERSION GOLD OVER NICKEL
6. SOLDER RESIST :- GREEN, PHOTOIMAGABLE (2 OFF)
7. COMPONENT IDENT. :- WHITE (2 OFF)
8. RELEASE - CERTIFICATE OF CONFORMITY

PC3162M ISSUE 4

LAYER STRUCTURE

LAYER	DESCRIPTION	COMMENT
K	COMPONENT IDENT - TOP	
W	SOLDER RESIST - TOP	MOSTLY RESIST
A	TOP TRACKS	SEE CONTROLLED IMPEDANCE TABLE
B	GROUND PLANE 1	MOSTLY COPPER
C	INNER TRACKS 1	
D	INNER TRACKS 2	SEE DIFFERENTIAL IMPEDANCE TABLE
E	VCC PLANE	MOSTLY COPPER
F	VEE/3V3 PLANE	MOSTLY COPPER
G	INNER TRACKS 3	
H	INNER TRACKS 4	SEE DIFFERENTIAL IMPEDANCE TABLE
I	GROUND PLANE 2	MOSTLY COPPER
J	BOTTOM TRACKS	SEE CONTROLLED & DIFFERENTIAL TABLES
M	SOLDER RESIST - BOTTOM	MOSTLY RESIST
L	COMPONENT IDENT - BOTTOM	

HOLE SIZES (FINISHED)

TOOL	SYMBOL	SIZE(mm)	PLATED	QTY
T01	·	0.3	YES	4755
T02	+	0.6	YES	24
T03	●	0.8	YES	170
T04	A	0.9	YES	742
T05	B	1.0	YES	996
T06	D	1.2	YES	16
T07	G	1.5	YES	100
T08	S	2.8	YES	13
T09	T			

TABLE OF CONTROLLED IMPEDANCE-100 OHMS

LAYER	TRACK D-CODE	TRACK WIDTH	MIN. GAP	Zo	REF. LAYER/LAYERS
A	*	.005"	.006"	100	B (MICROSTRIP)
J	*	.005"	.006"	100	I (MICROSTRIP)

* RS274X GERBER FORMAT USED

TABLE OF DIFFERENTIAL IMPEDANCE-100 OHMS

LAYER	TRACK D-CODE	TRACK WIDTH	MIN. GAP	Zo	REF. LAYER/LAYERS
D	*	.005"	.009"	100	# SEE BELOW
H	*	.005"	.009"	100	# SEE BELOW
J	*	.0055"	.0075"	100	@ SEE BELOW

DIFFERENTIAL IMPEDANCE OF 100 OHMS REQUIRED BETWEEN PAIRS OF .005" TRACKS RUNNING IN PARALLEL SEPARATED BY A .009" GAP

@ DIFFERENTIAL IMPEDANCE OF 100 OHMS REQUIRED BETWEEN PAIRS OF .0055" TRACKS RUNNING IN PARALLEL SEPARATED BY A .0075" GAP.

ISSUE	DATE	MOD NO.	DRAWN	CHECKED	APPROVED	STATUS
D	14-12-2003	TE 231	C.P.DAY	D.J.BECKETT	M.POSTRANECKY	
C	02-03-2002	TE 210	D.J.BECKETT	C.P.DAY	M.POSTRANECKY	
B	26-07-2001	TE 198	D.J.BECKETT	D.J.BALLARD	M.POSTRANECKY	
A	26-07-2000	- - - -	C.P.DAY	D.J.BECKETT	M.POSTRANECKY	

TOLERANCE UNLESS STATED
GENERAL +/- 0.1 mm
HOLES +/- 0.05 mm

FINISH
SEE NOTES
REMOVE ANY BURRS

ORIGINAL SCALE 1:1

DO NOT SCALE

MATERIAL & SPEC
SEE NOTES

SURFACE TEXTURE micro m
√ UNLESS STATED

0 50mm

USED ON

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CCLRC
COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS
RUTHERFORD APPLETON LABORATORY, CHILTON, OXON, OX11 0QX

TITLE
PC3162M DRILLING
TTC INTERFACE MODULE (TIM-2)

A | 1-TE-0102-024-00-D

TOTAL NO. OF SHEETS 1

A1-TE-0102-024-00-D