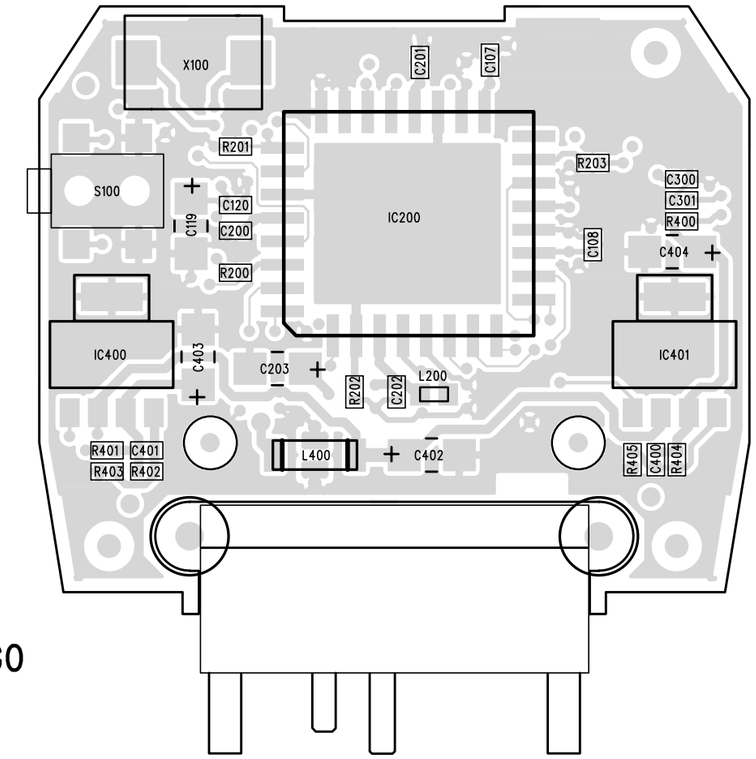
C-TECHNOLOGIES AB SWEDEN. OSKAR MCA-10 33-EP151022-C (REV C) (20)
LEGEND/POSITION PRINT PRI DEC22, 2000



ORIGO

APPENDED DOCUMENTS

	Rev	Files
■ X-Y Coordinates	C	XY35-EP151022-C.XLS
□ Testpoint / Testfixture		
□		
□		

					NAME: OSKAR MCA-10	PART No: 33-EP151022-C / REV: C
					C Tech	DATE: DEC 22, 2000 / DES: LP
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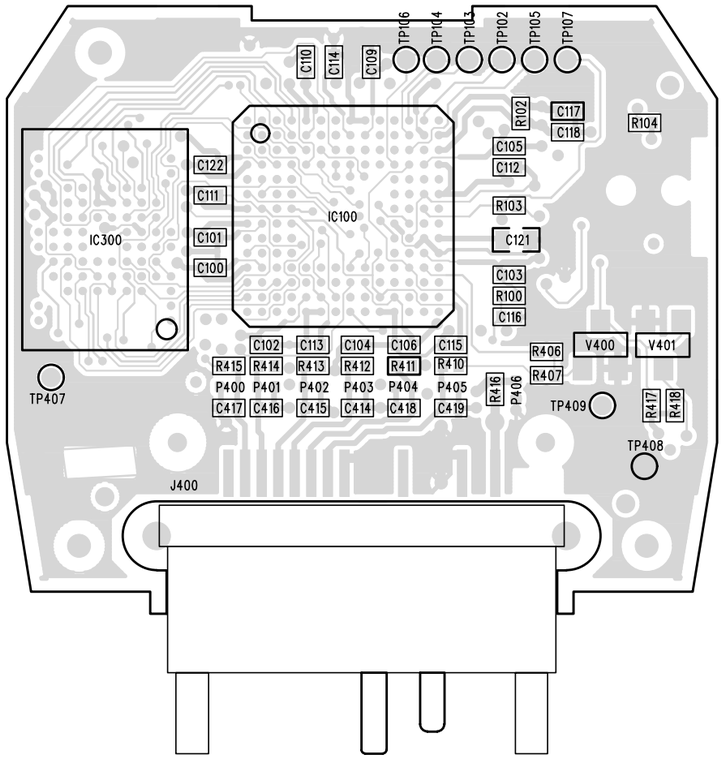
C-TECHNOLOGIES AB SWEDEN. OSKAR MCA-10 33-EP151022-C (REV C) (21)
LEGEND/POSITION PRINT SEC DEC22, 2000



ORIGO

				NAME: OSKAR MCA-10
				C Tech

PART No: 33-EP151022-C	REV: C	
DATE: DEC 22, 2000	DES: LP	
SHEET: 2 OF 2	APPR:	

INTR DAT

PCB SPECIFICATION

Board type
- ☐ Singlesided board
- ☐ Doublesided board
- ■ Multilayer board 6 layers

PCB Specification
- ☐ Perfag 1D ■ Perfag 3C
- ☐ Perfag 2E ☐ _____

Manufacturer

UL-Aproved and UL-marking required.

Production date.
YY = Year MM= Month WW = Week
Marking (Manufacturer Logo, UL No: E.., Material No., YYMMWW)

☐ **All marking is only allowed in Silkscreen pri or sec.**

☐ **All marking is only allowed in soldermask pri or sec.**

Laminate Type
- ☐ FR2 ☐ SEM1
- ☐ FR3 ☐ _____
- ■ FR4 ☐ _____

Flammability Class (UL ZPMV2)
- ■ 94 V-0 ☐ 94 V-2
- ☐ 94 V-1 ☐ 94 HB
- ☐ _____

Total Board Thickness
- ☐ 0.8mm ☐ 1.6mm **Tolerance: +-0.1**
- ☐ 1.0mm ☐ 2.0mm
- ■ 1.3mm ☐ _____

Conductor Thickness

Layer	Thickness	Tolerance	Information	Rev
L1	0,035mm	.....	incl. Plating	C
L2	0,035mm	.....		C
L3	0,035mm	.....		C
L4	0,035mm	.....		C
L5	0,035mm	.....		C
L6	0,035mm	.....	Incl. Plating	C
L7				
L8				

Dielectric

Layer	Thickness	Tolerance	Material	Information	Rev
L1-L2	0.037mm	.....			C
L2-L3	0.370mm	.....			C
L3-L4	0.220mm	.....			C
L4-L5	0.370mm	.....			C
L5-L6	0.037mm	.....			C
L6-L7					C
L7-L8					

Surface Finishing
- ☐ Vertical Hot Air Levelling
- ☐ Tin Lead Reflow
- ☐ Hard Gold Ni 4 - 5 µ
- ■ Immersion Gold Au 0.05 - 1 µ
- ☐ Electrolytic (Total PCB)
- ☐ Selective (Only on solderpads)
- ☐ Carbonmask Pri
- ☐ Carbonmask ___
- ☐ No Plating

Solder Resist Coatings
- ☐ Silkscreen
- ■ Photopolymer liquid-film
- ☐ Photopolymer dry-film max _____ µ
- ☐ Legend / Position Print Pri (white)
- ☐ Legend / Position Print Sec (white)
- ☐ Peelable mask Pri
- ☐ Peelable mask Sec
- ■ Blocked vias Pri (cover over)
- ■ Blocked vias Sec (cover over)
- ☐ Pluged vias 1 (sealed)
- ☐ Pluged vias 2 (sealed)
- ☐ No Coatings

Minimum Conditions

Min Track Width Outer	0.1016	mm.
Min Track Width Inner	0.1016	mm.
Min Spacing Outer	0.127	mm.
Min Spacing Inner	0.127	mm.
Min Clearance In Soldermask	0.1778	mm.
Min Annular Ring	----	mm.
SMD Fine Pitch	----	mm.
BGA Fine Pitch	0.8	mm.

Board Testing
- ■ Electrical Testing
- ■ SMD Layer Pri
- ■ SMD Layer Sec
- ☐ COB Layer Pri
- ☐ COB Layer Sec

Remarks

The C Technologies AB subcontractors are allowed to change the panel drawing

The C Technologies AB subcontractors are allowed to change the surface finishing specification

Notes

Lineshapes at corners must be retouched on film before manufacturing.

Radius except as stated =
- ■ Max 1.2 mm.
- ☐ _____

Tolerance except as stated =
- ■ ± 0.05 mm.
- ☐ _____

■ Final cleaning of boards before shipment, to avoid salt, grease and dust particles.

☐ Sulfer free paper between boards.

APPENDED DOCUMENTS

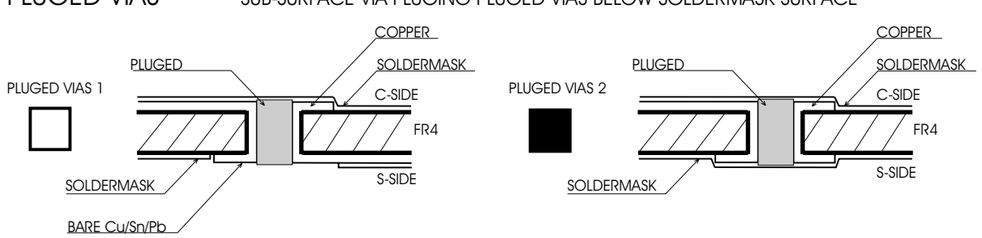
Layers	Rev	Files
■ (10) Layer Pri (Comp. side)	C	Lay_pri
■ (11) Layer Sec (Solder side)	C	Lay_sec
■ (12) Inner 1	C	Lay_in1
■ (13) Inner 2	C	Lay_in2
■ (14) Inner 3	C	Lay_in3
■ (15) Inner 4	C	Lay_in4
■ (16) Inner 5	C	Lay_in5
■ (17) Inner 6	C	Lay_in6
■ (18) Soldermask Pri	C	Sm_pri
■ (19) Soldermask Sec	C	Sm_sec
☐ (20) Legend/Position print Pri		Leg_pri
☐ (21) Legend/Position print Sec		Leg_sec
* ■ (22) Pastemask Pri 100%	C	Pm_pri
* ■ (23) Pastemask Sec 100%	C	Pm_sec
☐ (24) Peelabmask Pri		Pabm_pri
☐ (25) Peelabmask Sec		Pabm_sec
☐ (26) Gluemask Pri		Gm_pri
☐ (27) Gluemask Sec		Gm_sec
☐ (28) Carbonmask Pri		Cm_pri
☐ (29) Carbonmask Sec		Cm_sec
☐ (30) AUmask Pri		Aum_pri
■ (31) Drill file 1	C	Drill1.drl
■ (32) Drill file 2	C	Drill2.drl
☐ (33) Drill file 3		Drill3.drl
■ (34) Read me Gerber	C	Read_G.me
■ (35) Read me Paste	C	Read_P.me
☐ ( ) _____		
☐ ( ) _____		
☐ ( ) _____		

* = Squeegee side / Rakel sida

Manufacture files:		
Doc file	C	ET151040-C.pdf
Gerber Photo file	C	G-ET151040-C.zip
Gerber Paste file	C	P-ET151040-C.zip
Backup files for C Tech use only:		
Doc backup file (Corel9)	C	ET151040-C.cdr
PCB backup file(PADS Power Pcb 3.5.1)	C	ET151040-C.pcb

PLUGED VIAS

SUB-SURFACE VIA PLUGING PLUGED VIAS BELOW SOLDERMASK SURFACE



INTR DAT

NAME: OSKAR MCA-10

C Tech

PART No: ET151040-C	REV: C
DATE: DEC 22, 2000	DES: LP
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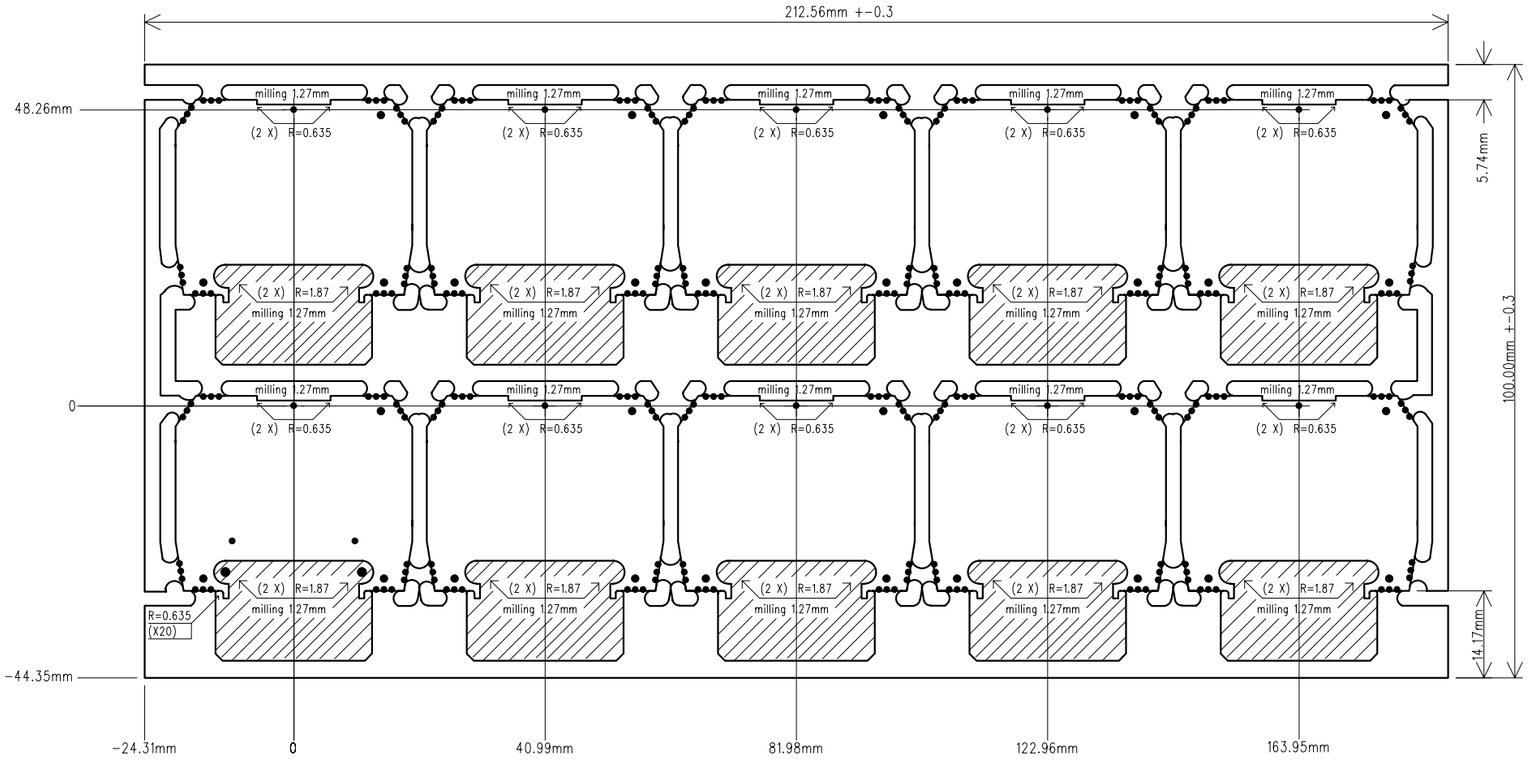
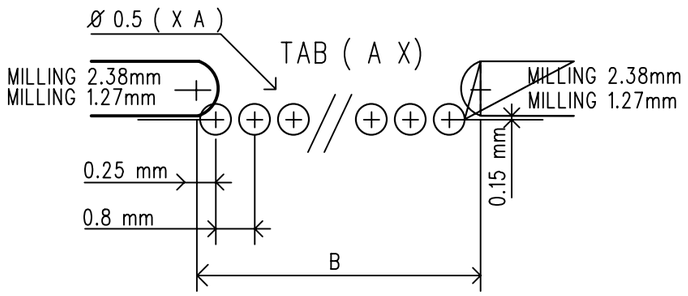
VIEW FROM PRIMARY SIDE





	Mark	Qty	A	B
ALL	A1	80	5	3.7 mm
	A2			
	A3			
	A4			
	A5			

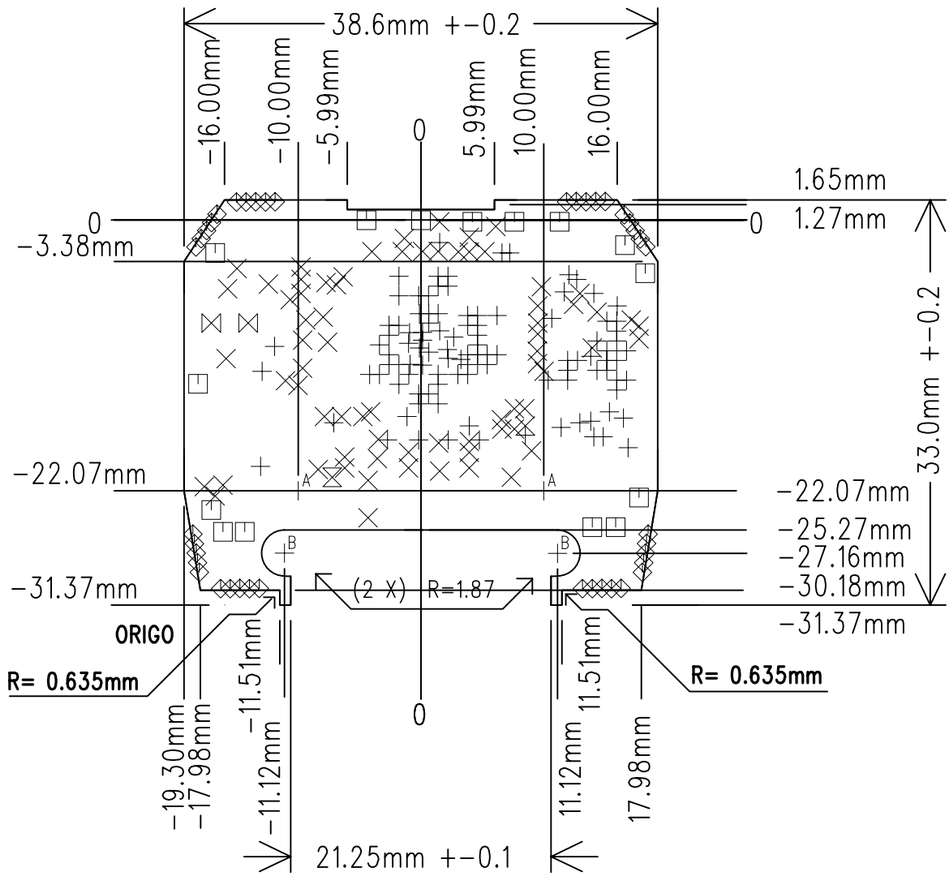
Step tolerance = +-0.15 mm

					NAME: OSKAR MCA-10	PART No: ET151040-C	REV: C
					C Tech	DATE: DEC 22, 2000	DES: LP
			INTR	DAT		SHEET: 2 OF 4	APPR:

VIEW FROM PRIMARY SIDE

	DRILLSIZE mm	PAD OUTER mm	PAD INNER mm
VIA 1 blind Layer 6–5	0.2	0.45	0.45
VIA 2 Through	0.3	0.6	0.7

C–TECHNOLOGIES AB SWEDEN. OSKAR MCA–10 ET151040–C (REV C) (31) DRILL DRAWING DEC22, 2000



Other measure = tolerance +–0.15

■ PCB Designed for automatic insertion

Type:C = Component V = Via S = Control O = Other B = Breakout holes

Marking		Qty	Diameter mm	Plated through yes	Plated through no	Tolerance mm	Type	Marking		Qty	Diameter mm	Plated through yes	Plated through no	Tolerance mm	Type
T1	+	106	0.2	X		+0.1 - 0.05	V 1	T10							
T2	×	72	0.3	X		+0.1 - 0.05	V 2	T11							
T3	◳	15	0.4	X		+0.1 - 0.05	C	T12							
T4	◈	40	0.5		X	+0.1 - 0.05	B	T13							
T5	⧖	1	0.5	X		+0.1 - 0.05	C	T14							
T6	⋈	2	0.9		X	+0.1	C	T15							
T7	A	2	2.2		X	+0.1 - 0.05	S	T16							
T8	B	2	3.7		X	+0.1 - 0.05	O	T17							
T9								T18							

INTR DAT

NAME: OSKAR MCA-10

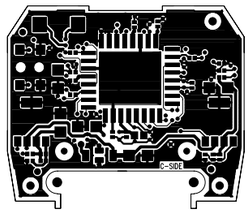
C Tech

PART No: ET151040-C | REV: C

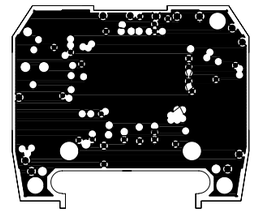
DATE: DEC 22, 2000 | DES: LP

SHEET: 3 OF 4 | APPR:

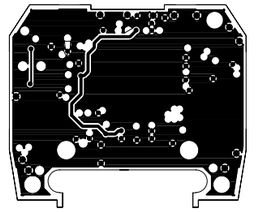
C-TECHNOLOGIES AB SWEDEN. OSKAR MCA-10 ET151040-C (REV C) (10) LAYER PRI GND AGND DEC22, 2000



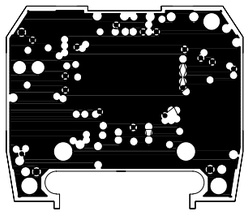
C-TECHNOLOGIES AB SWEDEN. OSKAR MCA-10 ET151040-C (REV C) (12) INNER 1 GND DEC22, 2000



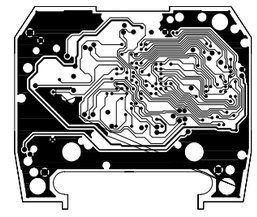
C-TECHNOLOGIES AB SWEDEN. OSKAR MCA-10 ET151040-C (REV C) (13) INNER 2 SIG GND DEC22, 2000



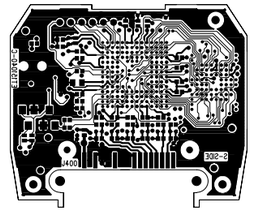
C-TECHNOLOGIES AB SWEDEN. OSKAR MCA-10 ET151040-C (REV C) (14) INNER 3 +3.3V DEC22, 2000



C-TECHNOLOGIES AB SWEDEN. OSKAR MCA-10 ET151040-C (REV C) (15) INNER 4 SIG +3.3V +2.5V DEC22, 2000



C-TECHNOLOGIES AB SWEDEN. OSKAR MCA-10 ET151040-C (REV C) (11)
LAYER SEC SIG GND DEC22, 2000



					NAME: OSKAR MCA-10	PART No: ET151040-C	REV: C
					C Tech	DATE: DEC 22, 2000	DES: LP
			INTR	DAT		SHEET: 4 OF 4	APPR: