

A

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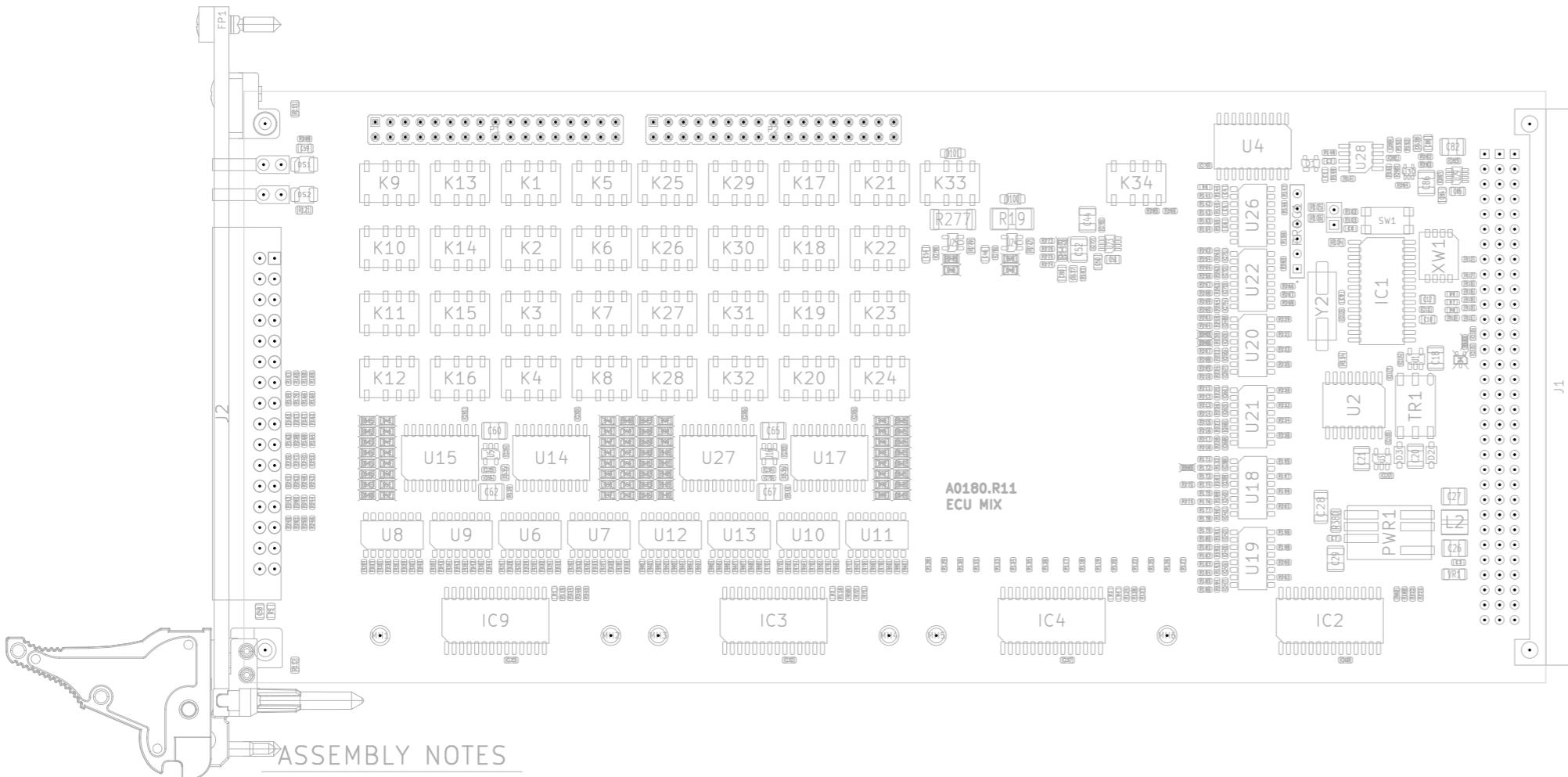
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ARXTRON TECHNOLOGIES

Sheet:
File: a0180_eol_ecu_mix.kicad_pcb
Project ID: PRJ22180
Project Name: EOL ECU RCM8 RCM9

Title: A0180 EOL ECU MIX CARD VO DEF
Part Number#: A0180

Size: A3	Date: 2025-03-12	Designer: ANTON TOKARSKYI	Rev: R11A
KiCad E.D.A.		Page: 1/3	



ASSEMBLY NOTES

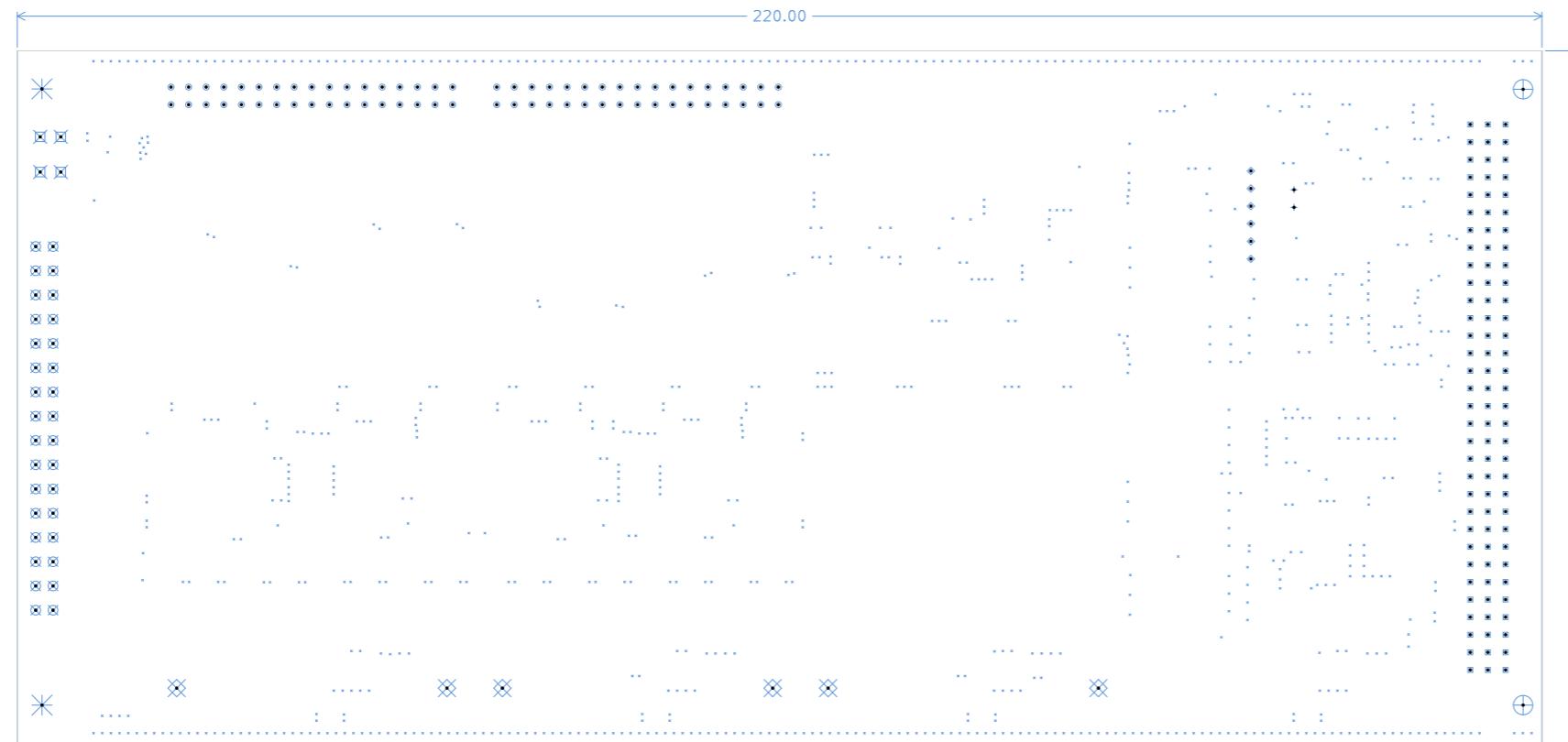
1. WORKMANSHIP SHALL COMPLY TO IPC 610 CLASS 3 CURRENT VERSION.
2. FIRST ARTICLE PROCESS MUST BE PERFORMED ON ALL PRODUCTION LOTS.
3. ALL ASSEMBLY AND HANDLING MUST BE IN ESD COMPLIANT WORKSTATIONS PER ANSI S20.20.
4. SURFACES OF EXPOSED CIRCUIT CONTACTS WILL BE FREE OF CONTAMINATION.
5. SOLDER PASTE MUST BE TS391LLT250 WITH NO CLEAN FLUX.
6. FOR REWORK OR THROUGH HOLE COMPONENTS SOLDER MUST BE #4901 SERIES MG WITH NO CLEAN FLUX.
7. SOLDER PROFILES SHALL NOT EXCEED 220C.
8. SHALL NOT HAVE A RAMP MORE THAN 2 DEG C/SEC
10. AND SHOULD NOT HAVE A TAL OF MORE THAN 60 SEC
11. PARTS ASSEMBLED ON THIS BOARD SHALL COMPLY WITH ROHS DIRECTIVE.
12. DO NOT WASH ASSEMBLY AS IT CONTAINS MOISTURE SENSITIVE DEVICES.
13. VISUAL INSPECTION MUST BE USED FOR PROCESS CONTROL ON ALL BOARDS.
14. ALL BOARDS MUST BE FUNCTIONALLY TESTED.
15. DATA COLLECTION IS REQUIRED AT ALL CONTROL POINTS AND SUPPLIED FOR REVIEW.
16. NO PCB REPAIR IS ALLOWED.
17. ALL BOARDS SHALL BE SERIALIZED PRIOR TO ASSEMBLY FOR TRACEABILITY REQUIREMENTS.
18. MANUFACTURING FACILITY MUST MAINTAIN CURRENT ISO 9001 CERTIFICATION.
19. PACKAGING
 - 19.1 PARTS MUST BE SUFFICIENTLY PACKAGED TO PREVENT DAMAGE
 - 19.2 ALL BOARDS SHALL BE SEALED IN STATIC SHIELDING BAGS PRIOR SHIPMENT.

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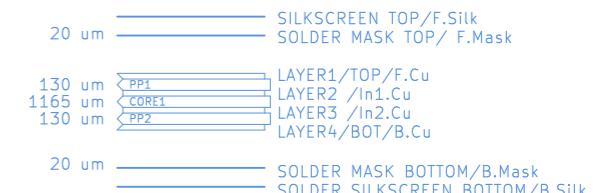
Drill Map:

- 0.250mm / 0.0098" (884 holes)
- 0.860mm / 0.0339" (68 holes)
- + 0.950mm / 0.0374" (2 holes)
- 1.000mm / 0.0394" (96 holes)
- ◊ 1.040mm / 0.0409" (6 holes)
- ☒ 1.400mm / 0.0551" (32 holes)
- * 2.900mm / 0.1142" (2 holes)
- ☒ 1.930mm / 0.0760" (4 holes) {not plated}
- ☒ 2.500mm / 0.0984" (6 holes) {not plated}
- ⊕ 2.790mm / 0.1098" (2 holes) {not plated}

FABRICATION NOTES

- 1) MATERIAL TYPE:
FR-4 HIGH Tg 180
- 2) LAYERS:
 2 LAYERS 4 LAYERS 6 LAYERS 8 LAYERS
- 3) COPPER WEIGHT:
0. LAYERS: 1/2 oz. 1 oz. 2 oz.
1. LAYERS: 1/2 oz. 1 oz. 2 oz. NONE
- 4) OVERALL BOARD THICKNESS:
0.8mm 1.6mm 0.5mm 1.2mm 1.4mm OTHER
+/- 0.1 +/- 0.1
- 5) SOLDER MASK:
TOP: GREEN OTHER
BOTTOM: GREEN OTHER
PEELABLE: WITHOUT
- 6) SURFACE FINISH:
 HASL HASL RoHS ENIG WITHOUT
 GOLD SILVER TIN OTHER
- 7) SILKSCREEN:
(NO INK TO APPEAR ON SOLDERABLE COMPONENT PADS)
 TOP BOTTOM BOTH WITHOUT
 WHITE BLACK YELLOW OTHER
- 8) NETLIST ELECTRICAL VERIFICATION
 YES NO
- 9) FABRICATE IN ACCORDANCE WITH IPC-6012 (LATEST REVISION)
CLASS: 2 OTHER
TYPE: 3 OTHER
- 10) INSPECT IN ACCORDANCE WITH IPC-A-600, CLASS 2
CLASS: 2 3
EN45545-2: NO YES
- 11) TOOLING HOLES MUST BE PRIMARY DRILLED AT THE SAME TIME AS PTH.
ALL HOLES MUST BE WITHIN 0.003" OF RADIAL TRUE POSITION.
- 12) CONDUCTOR WIDTH AND SPACING SHALL BE WITHIN +/- 0.001 INCH
OF ORIGINAL GERBER DATA.
- 13) ALL PADS MUST BE FREE OF ANY MARKING.
- 14) MANUFACTURE/ FABRICATE TO MEET EU RoHS DIRECTIVE.
- 15) NO CONTROLLED IMPEDANCE.
- 16) ALL BOARDS MUST BE CLEAN AND FREE OF DEBRIS.
- 17) NO REPAIR IS ALLOWED.
- 18) REMOVE ALL BURRS AND BREAK SHARP EDGES 0.015 MAXIMUM.
- 19) PANELS SHALL BE PACKED AND VACUUM SEALED INTO A CHEMICALLY
INERT HEAT-SEALED POLYETHYLENE FILM CONTAINING A DESICCANT BAG
AND HUMIDITY INDICATOR.
ALL PANELS MUST BE ORIENTED IN THE SAME DIRECTION IN THE PACKAGE.

LAYER STACKUP (STANDARD SAFE-PCB)



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Page: 3/3