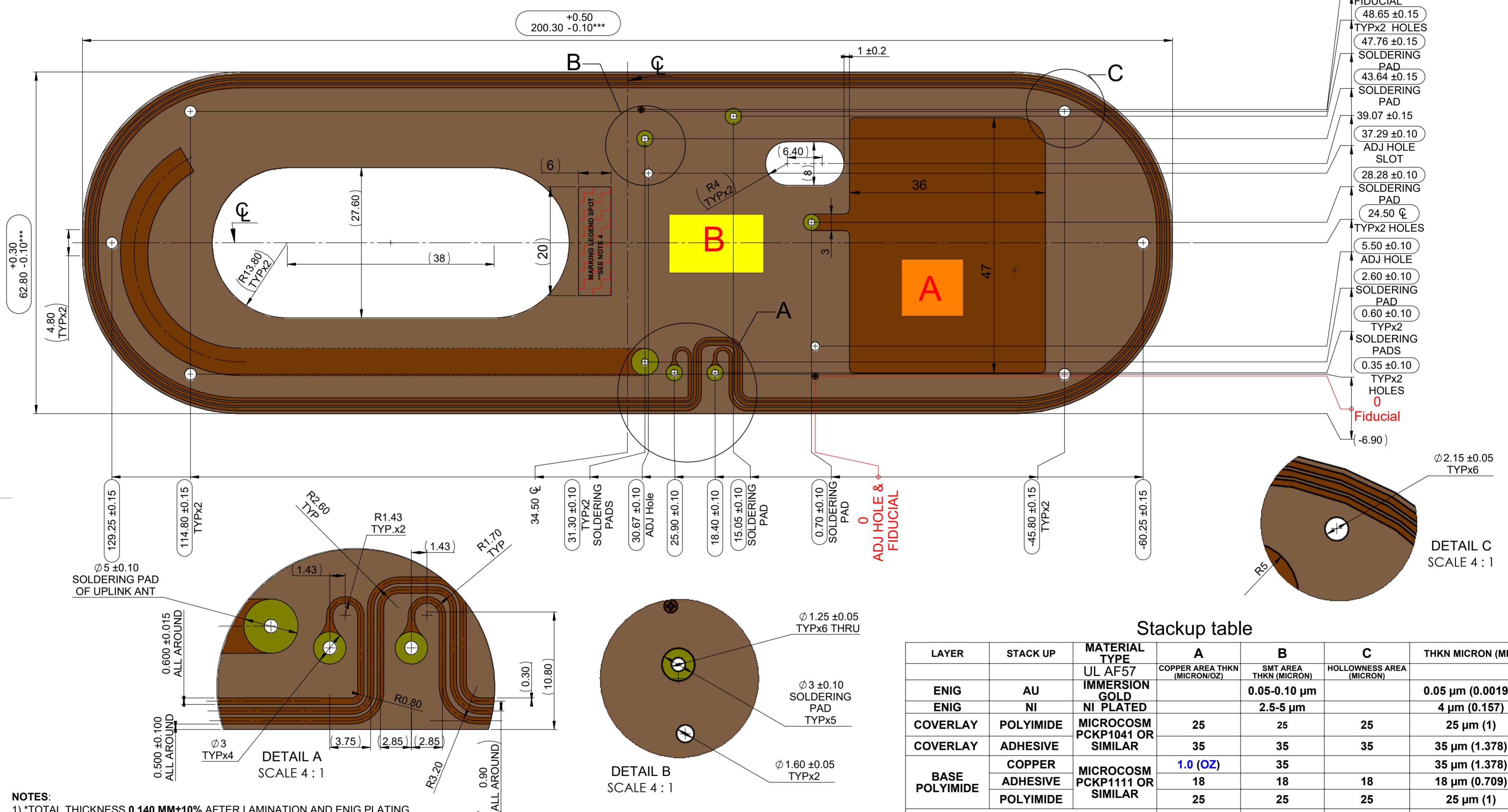


12	11	10	9	8	7	6	5	4	3	2	1
ECO	REV	DESCRIPTION	APPR	DATE							
EC173271	01	Drawing in R&D phase, not for production	As per AGILE	As per AGILE							

DRAWING MUST BE PRINTED IN COLOR ONLY

SOLDERING SIDE VIEW (BOTTOM VIEW)



NOTES:
1) TOTAL THICKNESS $0.140 \text{ MM} \pm 10\%$ AFTER LAMINATION AND ENIG PLATING.
FOR BOARD THICKNESS DETAILS REFER STACKUP TABLE

2) MATERIALS:
A) POLYIMIDE HI TG (TG 220°C AS A MINIMUM).
B) MATERIALS TO BE IN ACCORDANCE: COVERLAY WITH IPC-4204/1, BASE (COPPER-CLAD LAMINATE) WITH IPC-4204/11.
C) ALL MATERIALS SHALL BE ROHS3 COMPLIANT AND COMPLY TO LEAD-FREE SOLDERING PROCESS.
D) EQUIVALENT MATERIAL SHALL BE HALOGEN FREE AND APPROVED BY MEDTRONIC COMPANY.

3) FINISHING: IMMERSION GOLD OVER NICKEL:
A) IMMERSION GOLD OF $0.05\text{--}0.10 \mu\text{m}$, OVER $2.5\text{--}5.0 \mu\text{m}$ OF NICKEL ON EXPOSED COPPER.
B) FINISH APPLIED (TYPICALLY ON 6 PLACES) - EXPOSED SOLDERING COPPER PADS AT THE FRONT SIDE ONLY.
4) MARKING LEGEND SPOT**: MANUFACTURER's IDENTIFICATION, PART NUMBER, REVISION, DATECODE, ROHS3 COMPLIANCE MARK AND UL-94V-0 REGISTERED MATERIAL ID NUMBER.
6) CLEANNESS REQUIREMENTS FOR FINISHED PARTS ARE:
• CLEAN PART MEETS ALL REQUIREMENTS OF SPECIFICATION AND APPEARANCE.
• CLEAN PART IS FREE OF ANY FOREIGN MATTER, E.G. ANY TAPE, STICKERS, PAINT, OR STAIN OVERSPRAY, ADHESIVE, OIL, GREASE, BIOLOGICAL PARTICLES, FIBERS, WAXES, SALT, CHEMICALS RESIDUES, INORGANIC DUST PARTICLES. BIOPURDUN CLEANLINESS SUBJECT IS OUT OF SCOPE OF THIS DEFINITION.
• CLEAN PART IS READY FOR USAGE IN SOLDERING PROCESS AS IT WAS EXTRACTED OUT OF ITS PACKAGE WITHOUT ANY ADDITIONAL PREPARATION OR TREATMENT.
7) FOR ITEM PACKAGING, HANDLING AND STORAGE REQUIREMENTS REFER A PACKAGING INSTRUCTION DOCUMENT.

LAYER	STACK UP	MATERIAL TYPE	A	B	C	THKN MICRON (MIL)
ENIG	AU	IMMERSION GOLD		0.05-0.10 μm		0.05 μm (0.00196)
ENIG	NI	NI PLATED		2.5-5 μm		4 μm (0.157)
COVERLAY	POLYIMIDE	MICROCOSM PCKP1041 OR SIMILAR	25	25	25	25 μm (1)
COVERLAY	ADHESIVE		35	35	35	35 μm (1.378)
BASE POLYIMIDE	COPPER	MICROCOSM PCKP1111 OR SIMILAR	1.0 (OZ)	35		35 μm (1.378)
	ADHESIVE		18	18	18	18 μm (0.709)
	POLYIMIDE		25	25	25	25 μm (1)
TOTAL MATERIALS THICKNESS			138	82.1	103.0	138 μm (5.433)
TOTAL (TARGET) THICKNESS			140	NA	NA	140 μm (5.512)
TOLERANCE			±10%	±10%	±10%	NA

Item & its package must be RoHS compliance related to European directive EU 2015/863

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MATERIAL: SEE NOTES

HEAT TREATMENT: N/A

FINISH: N/A

DESCRIPTION:

PCB Patch Flex Antenna

UNSPECIFIED TOLERANCE: Linear ±0.1 Centers distance ±0.1 Angles ±30°

UNSPECIFIED SURFACE FINISH: N/A

DRAWN: Vitaly F. XXXAGILE 11-Sep-2022

DESIGN: Vitaly F. XXXAGILE XXXAGILE

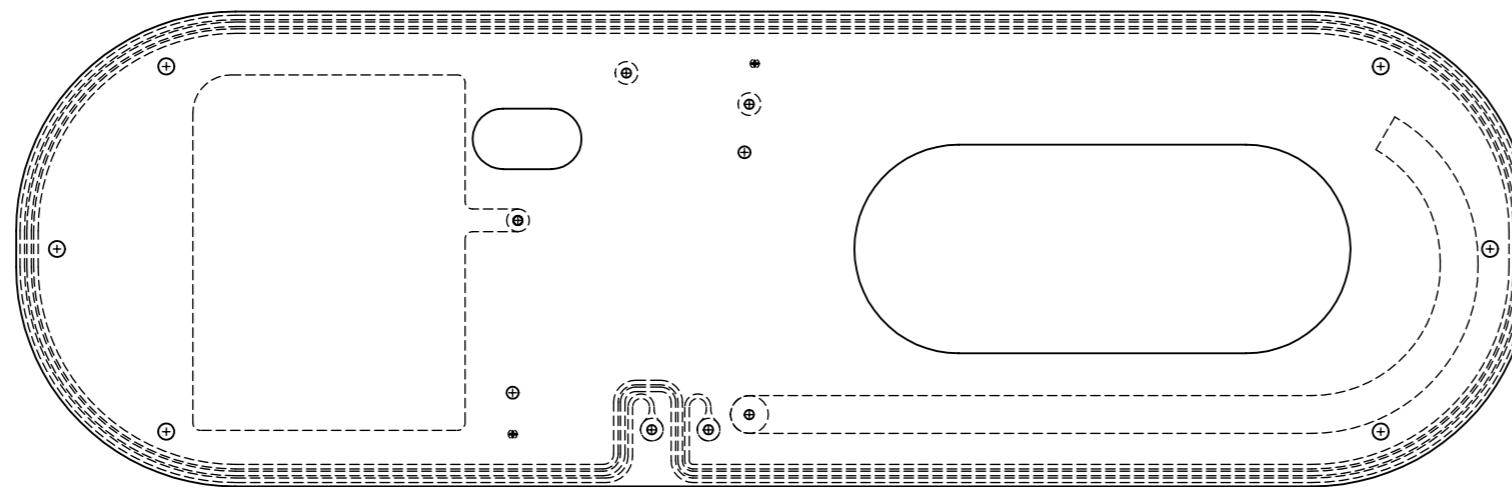
APPR: Chen M. XXXAGILE XXXAGILE

SIZE: A3 PART NUMBER: PT00166959 REV. 01

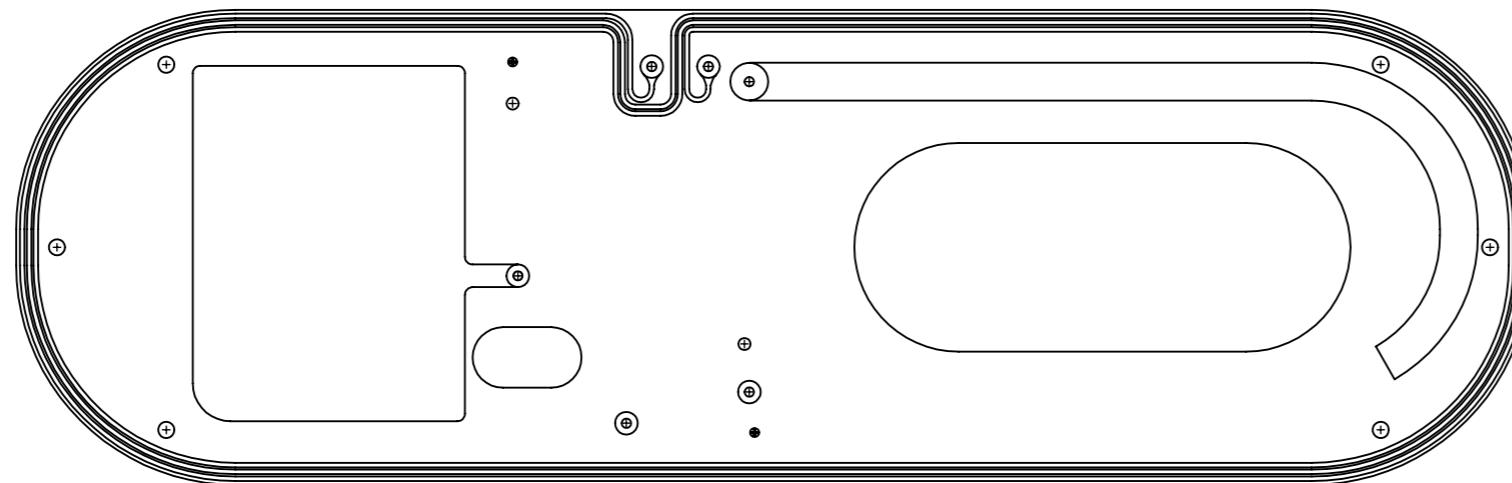
SCALE X:X SHEET: 1 OF: 2

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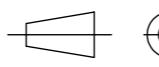
PRINT SIDE



SCALE 1:1



SOLDERING SIDE view (BOTTOM VIEW)

				ASSET # (If applicable)
<i>Item & its package must be RoHS compliance related to European directive EU 2015/863</i>				www.givenimaging.com
MATERIAL: SEE NOTES				
HEAT TREATMENT: N/A				
FINISH: N/A				
ALL DIM. ARE IN mm UNLESS OTHERWISE SPECIFIED				
UNSPECIFIED TOLERANCE: Linear ± 0.1 Centers distance ± 0.1 Angles $\pm 30'$				
UNSPECIFIED SURFACE FINISH:		NAME	SIGNATURE	DATE
N/A		DRAWN.	Vitaly F. XXXIAGILE	11-Sep-2022
		DESIGN	Vitaly F. XXXIAGILE	XXXIAGILE
		APPR.	Chen M. XXXIAGILE	XXXIAGILE
SCALE X:X				SHEET: 2 OF: 2
SIZE A3				PART NUMBER: PT00166959
				REV. 01