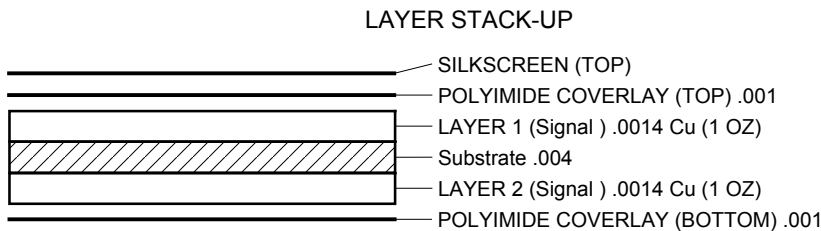


SCALE: NONE
DETAIL A - SMALLEST TRACE WIDTH

Drill Chart				
Size	Sym	Qty	Plated	Tolerance
.0118		2	Yes	+0/- .0118
.02		2	Yes	+0/- .02
.032		2	No	+/- .002
Total		6		



REV	REVISION NOTES	AUTHOR	APPROVED
X1	Initial flex antenna design for PEDI RFID	R. Rutledge	2013-07-03

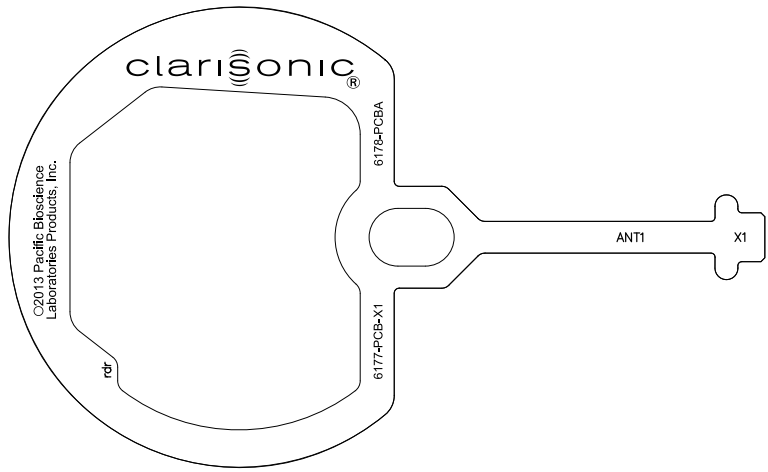
- FAB NOTES: UNLESS OTHERWISE SPECIFIED
- Dimensions are given in inches if no units are specified
 - Refer to 6178-SCH (Schematic) and 6177-GBR (Gerbers) for design data.
 - Fabricate Flex in accordance with IPC-6013 Class 2 using customer-supplied data
 - Material: Double-layer flex circuit with polyimide coverlay and adhesiveless substrate
 - Copper Weight: .5 oz. rolled annealed Cu with .5 oz. Cu plating. Finished Cu thickness 1 oz.
 - Laminate shall be per IPC-4202,4203, and 4204, with UL 94 V-0 flammability rating
 - Overall flex thickness to be .01 ±10%.
 - Finish:
 - Apply .001 thick polyimide coverlay to both sides of PCB per IPC-4203 using "Solder Mask" CAD data for areas to remove coverlay.
 - Exposed copper shall be plated with Electroless Nickel Immersion Gold (ENIG) per IPC-4552
 - Minimum 3um Ni and 0.05um Au plating
 - Silkscreen/Overlay shall be white, permanent, non-conductive ink. Silkscreen shall not encroach on any solderable component pad.
 - Tolerances:
 - Unless otherwise specified all hole dimensions apply after plating. Plated through holes to have a minimum of .001 copper wall plating.
 - All holes shall be located within .005 diameter of true position. All holes surrounded by land pads shall have a minimum annular ring of .001. Tangency on holes with pad breakout is acceptable.
 - Conductor outlines shall be within .001 of artwork originals.
 - Maximum radius on any inside corner: .020
 - Layer to layer registration shall be within .003
 - Board outline contours shall be within .005
 - Test Requirements:
 - 100% electrical verification of opens/shorts
 - A certification of conformance shall be supplied to the circuit board assembler with each lot indicating that PCBs were built and tested in accordance with these requirements.
 - Panelization shall be at the fabricator's discretion to minimize cost and maximize yield.

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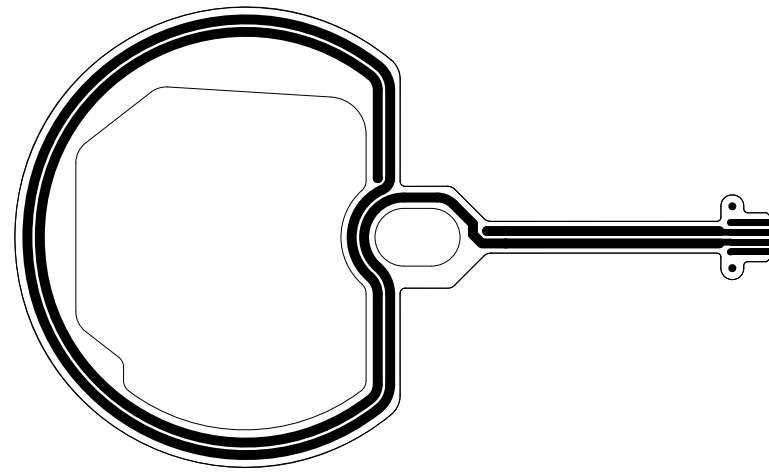
DRAWN R. Rutledge	DATE 2013-07-03	DWG TITLE Flex Antenna for RFID, PEDI Fabrication Drawing	
ENGINEER R. Rutledge	DATE 2013-07-03		
CHECKED D. Gunderson	DATE 2013-07-03		
APPROVED S. Straka	DATE 2013-07-03	SIZE C	DWG NO 6177-PCB
ISSUED R. Rutledge	DATE 2013-07-03	SCALE 2 : 1	SHEET NAME Bare Board
		REV X1	SHEET 1 OF 3

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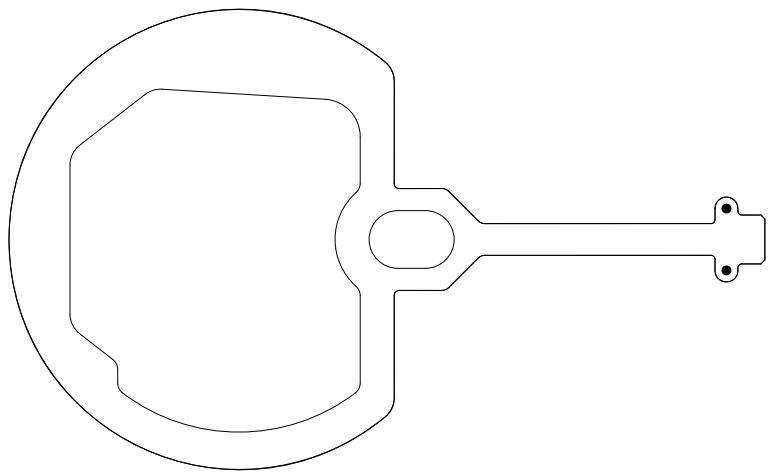
Layer : Top Overlay

Gerber: .gto



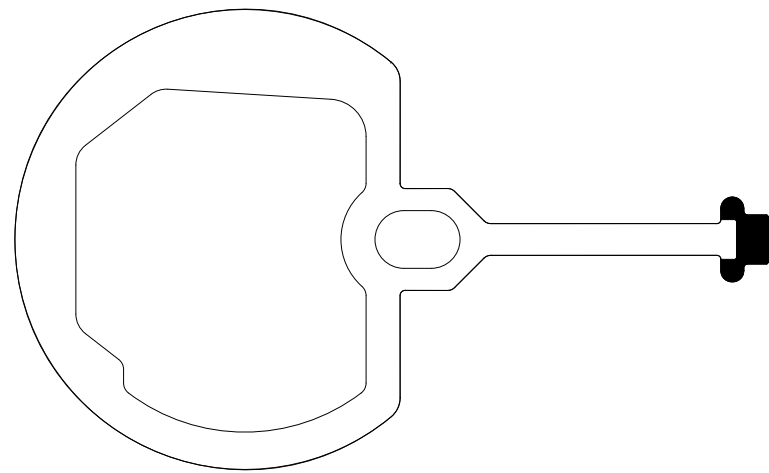
Layer : Bottom Layer

Gerber: .gbl



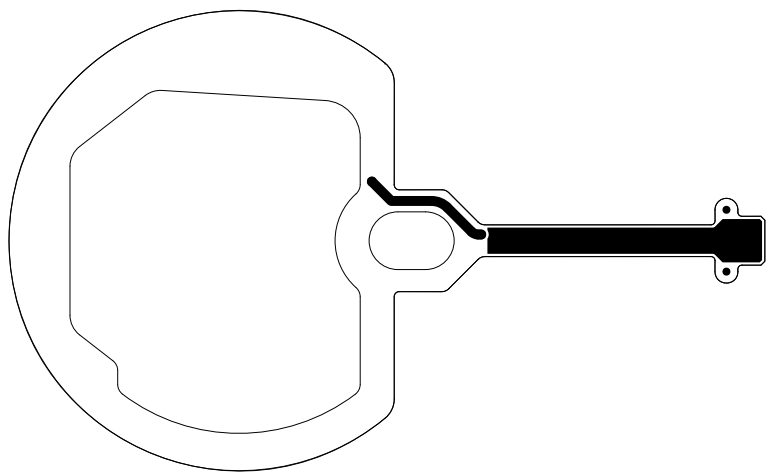
Layer : Top Coverlay (neg)

Gerber: .gts



Layer : Bottom Coverlay (neg)

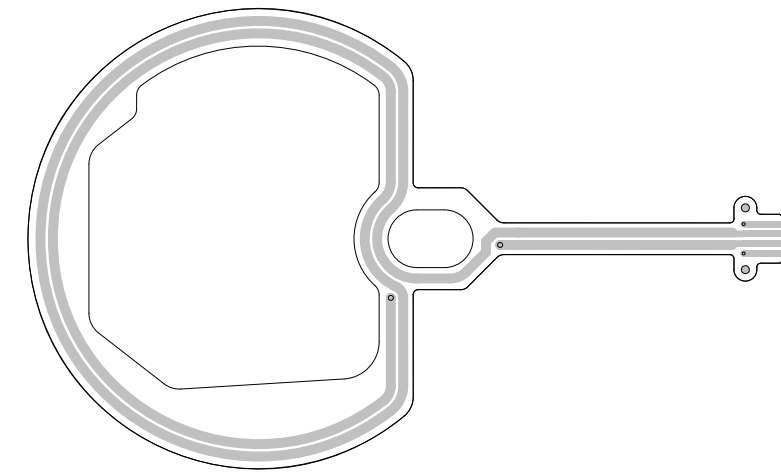
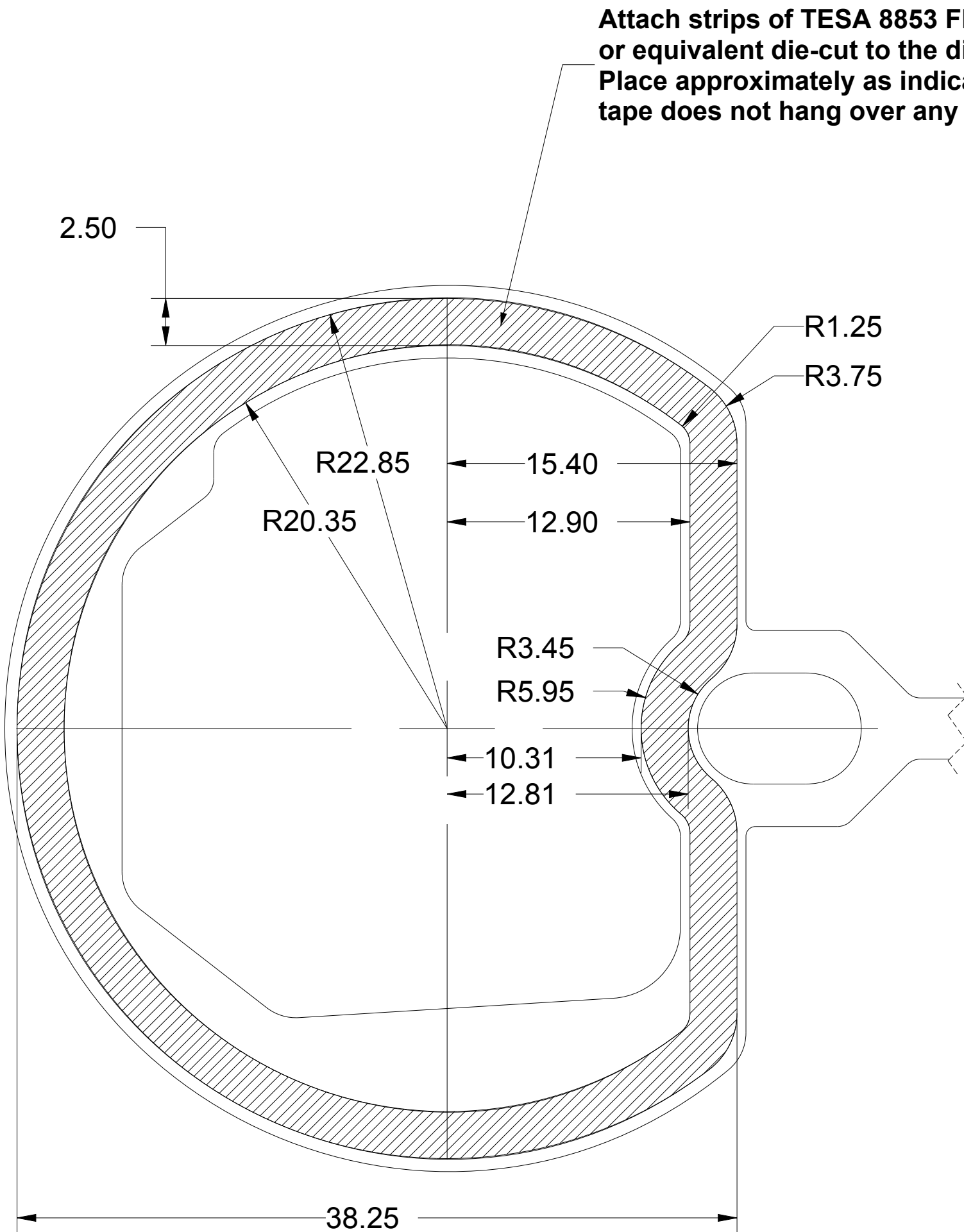
Gerber: .gbs



Layer : Top Layer

Gerber: .gtl

SHEET NAME:	Layer Prints		
SIZE	DWG NO	REV	
C	6177-PCB	X1	
SCALE 2 : 1	Pacific Bioscience Laboratories Products, Inc.		SHEET 2 OF 3



SHEET NAME:	Pressure Sensitive Adhesive Strips		
SIZE	DWG NO	REV	
C	6177-PCB	X1	
SCALE 2 : 1	Pacific Bioscience Laboratories Products, Inc.		SHEET 3 OF 3