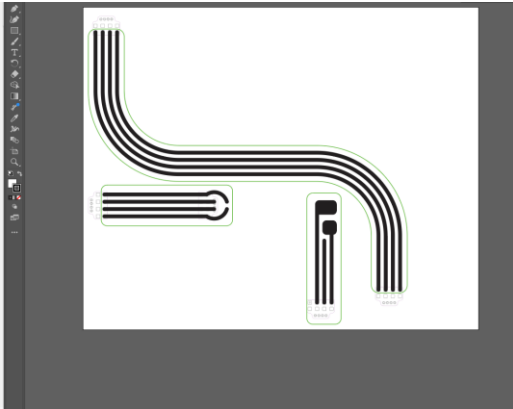


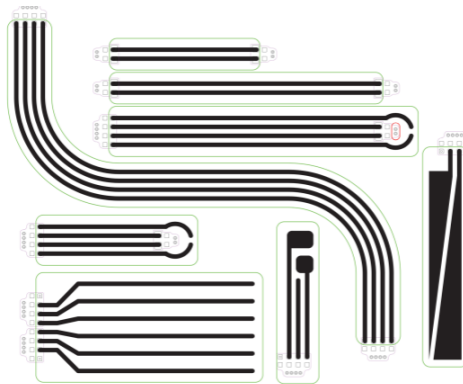
How It Works

1



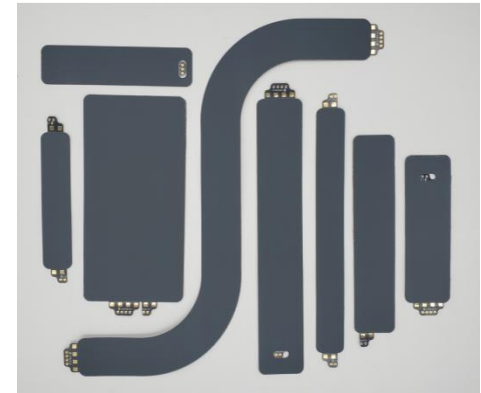
DESIGN YOUR FILE:
Create a .DXF or .AI file
of your component that
follows our design rules

2



SUBMIT YOUR FILE:
Send your file to
www.lomia.com/lel-builder
We will return with a quote
and proof or file feedback
within 1 week.

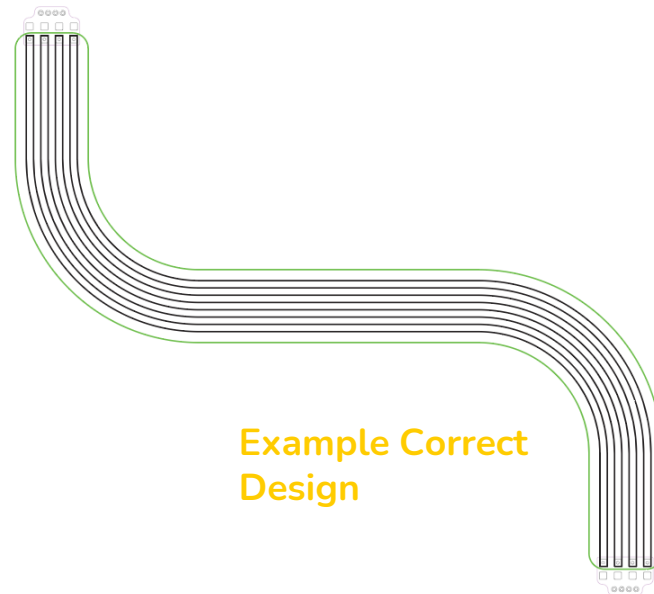
3



FUFILLMENT:
We will build your part
and ship within 2 weeks of
payment

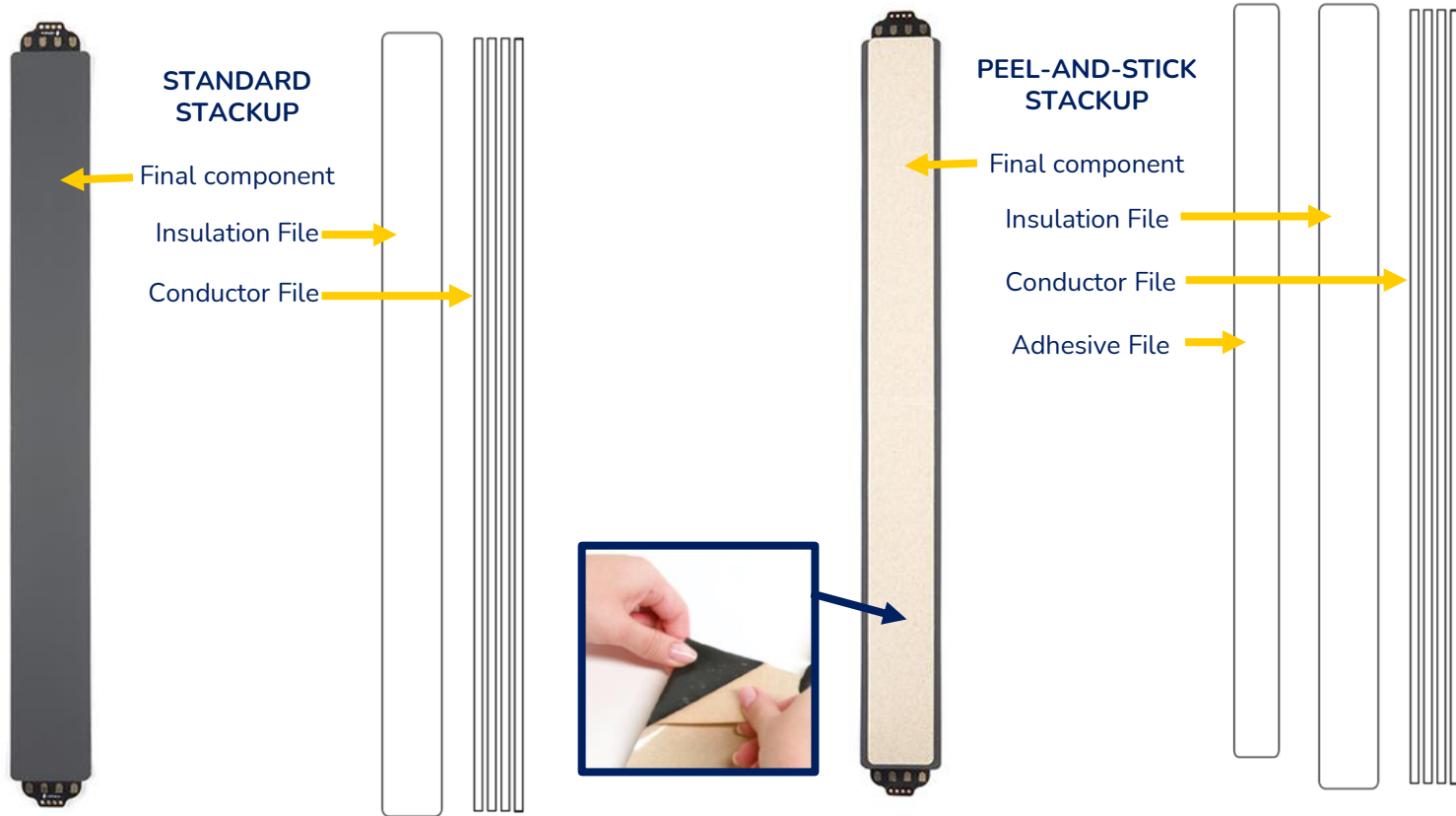
Design Rules and Component Information

Max Part Size	11" x 19" or 279mm x 482mm
Trace Termination	All traces must end in a .1" square to connect to a Loomia Flex PCB Termination
Minimum feature size, trace width and spacing	0.1" or 2.54mm <i>(this means no tapered off triangle features)</i>
File Layers	Each submission can include up to 4 layers: -Conductive trace file -Insulation file top - Insulation file bottom - Adhesive Outline (if you want a peel-and-stick piece)
File Format	.DXF (saved as 1" = 1") or .AI file
Max Leads	6 traces
Outlines	<i>All lines must be converted into shapes</i>



Adhesive Options

Components can be made as a standard component, or as a peel-and-stick component. If you would like a peel-and-stick adhesive added to your component, please submit a layer for the adhesive along with your submission

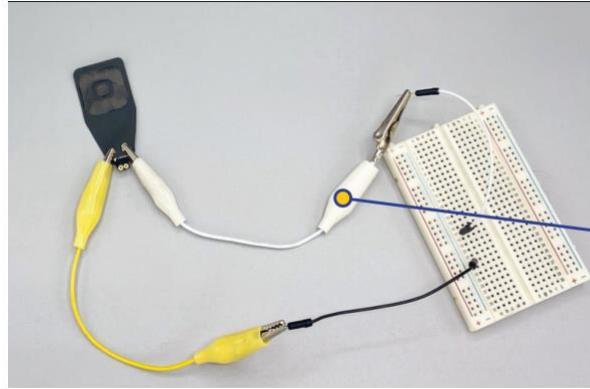


Termination

All buses terminate in the Loomia Flex PCB connector.

If you would like a different termination, please contact us directly.

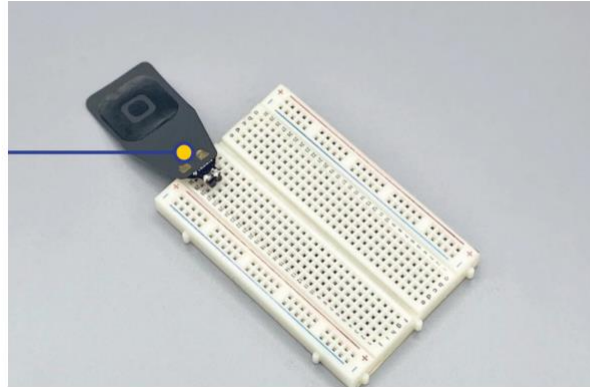
See all Loomia connectors in the appendix.



CONNECTING: Alligator Clips

You can easily connect to any LOOMIA Part using alligator clips. Simply clip directly to the exposed pad to get a good connection.

This technique works well for experimentation where you are still broadly testing a circuit.



CONNECTING: Headers

All LOOMIA Parts can be easily soldered to standard pitch headers. Simply solder them in to the bottom of the interconnect for easy breadboarding and attachments. Repetitive stress can break the interconnect, so this technique is best when your circuit is more settled. Do not use the component as a lever for removal from the breadboard - remove components by the headers, not the LEL portion.

**Note, Image above shows clip pads in the insulation. This is an outdated design. Actual deliverables will have clip pads blow the insulation to avoid the risk of melting the TPU while soldering.*

CONNECTIONS

Nominal Data and Technical Specs

Electrical Properties

Max Voltage: 28V *trace design may allow for more

Max Current: 6A *trace design may allow for more

Data Protocols:

Interfaces which are OK with the LEL

- RS-485
- CAN
- LIN
- Short runs (<12") of I2C, SPI, UART depending on outside environmental influence

Interfaces not generally recommended with the LEL

- USB
- HDMI
- Ethernet

Standard LEL Assembly (12 square inches or 77 square centimeters)			
Number of layers	Weight (g)	Thickness (inch)	Thickness (mm)
1	2.67	0.010	0.254
2	4.17	0.016	0.406
3	5.64	0.022	0.559
4	7.10	0.028	0.711
5	8.54	0.033	0.838
6	9.97	0.039	1.00

