



LED brooch

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[VIEW IN BROWSER](#)

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Summary

Maybe it is a little big for brooch. It looks good if i put it on the bag or on the shelf.



1.79 hrs



3 pcs



0.30 mm



0.40 mm



PLA



15 g



Prusa
MK3/S/S+

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Tags: [led](#) [blinkytape](#)

I made the 24 LED ring for brooch. Recently I draw a new one with [Fusion 360](#) .

To make this brooch, you need

[LED ring with 24 right-angle LEDs, inwards facing](#)

[Blinkytape controller](#)

transparent pvc mirror fabric (This is optional, if you don't want the mirror effect can skip it)

40mm round cabochon

I print the brooch-out first, and put the round cabochon inside, then file and modify the brooch-in a little bit. Then screw in the outside part to lock the cabochon in place. Cut transparent pvc mirror fabric, put it under between the ring pcb and the brooch-in plastic. Put the ring pcb in. Add another transparent pvc mirror fabric under the ring pcb to make the mirror effect. Then cut a little of the bot piece for wire then glue them together.

The Ring led pcb is use JST connector to connect to the blinkytape controller.

Model files



brooch-out.stl



brooch-in.stl



brooch-bot.stl

Print files



brooch-out.gcode

PLA 0.40 mm 0.30 mm 1.36 hrs 12 g Prusa MK3/S/S+



brooch-in.gcode

PLA 0.40 mm 0.30 mm 0.22 hrs 2 g Prusa MK3/S/S+



brooch-bot.gcode

PLA 0.40 mm 0.30 mm 0.21 hrs 1 g Prusa MK3/S/S+

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