

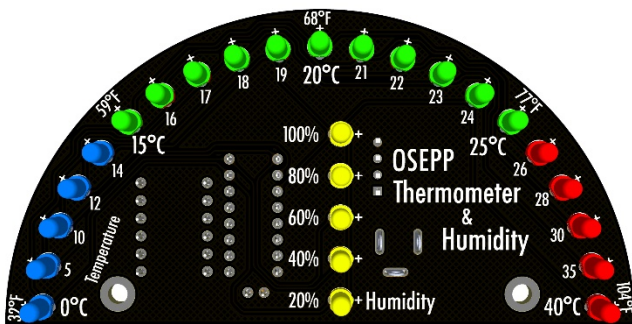


OSEPP USA, INC.
2105 S Hardy Dr., Unit # 19
Tempe, Arizona, 85282
USA

Thermometer & Humidity DIY Solder Kit

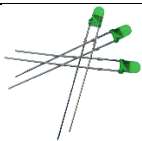


Cat #: DIY-008

Learn to solder with easy-to-follow instructions. Ideal for hobbyists and education institutes.



- ✓ 26x LED Temperature Indicator
- ✓ Temperature Range: 0°C/32°F to 40°C/104°F
- ✓ 5x LED Humidity Indicator
- ✓ Humidity Range: 20% to 100%
- ✓ DHT11 Humidity Sensor
- ✓ Microprocessor Technology
- ✓ Front image to come.
- ✓ 91 Solder Points

Kit Contents:


Device	Value	Qty	Designator	Important Info.	
LED 3mm	Green	11	LED6 – LED16	Watch the polarity. Long leg is positive (+)	
LED 3mm	Red	5	LED17 – LED21	Watch the polarity. Long leg is positive (+)	
LED 3mm	Yellow	5	LED22 – LED26	Watch the polarity. Long leg is positive (+)	



LED 3mm	Blue	5	LED1 – LED5	Watch the polarity. Long leg is positive (+)	
Humidity Sensor	DHT11	1	DHT11	Watch the position	
Ceramic Capacitor	100nF	1	C1	No polarity	
Resistor	330 ohm	7	R1 – R7	No polarity	
IC	STC15W204S	1	U1	Watch the position of the notch	
DC Jack	5.5 x 2.1mm	1	DC1	Watch the position	
Plastic Standoff	M3 x 20mm	2	n/a	n/a	
Screws	M3 x 6	2	n/a	n/a	
PCB	100 x 50 mm	1	n/a	n/a	
Desoldering Braid	6"	1	n/a	For removing solder when correction mistakes	

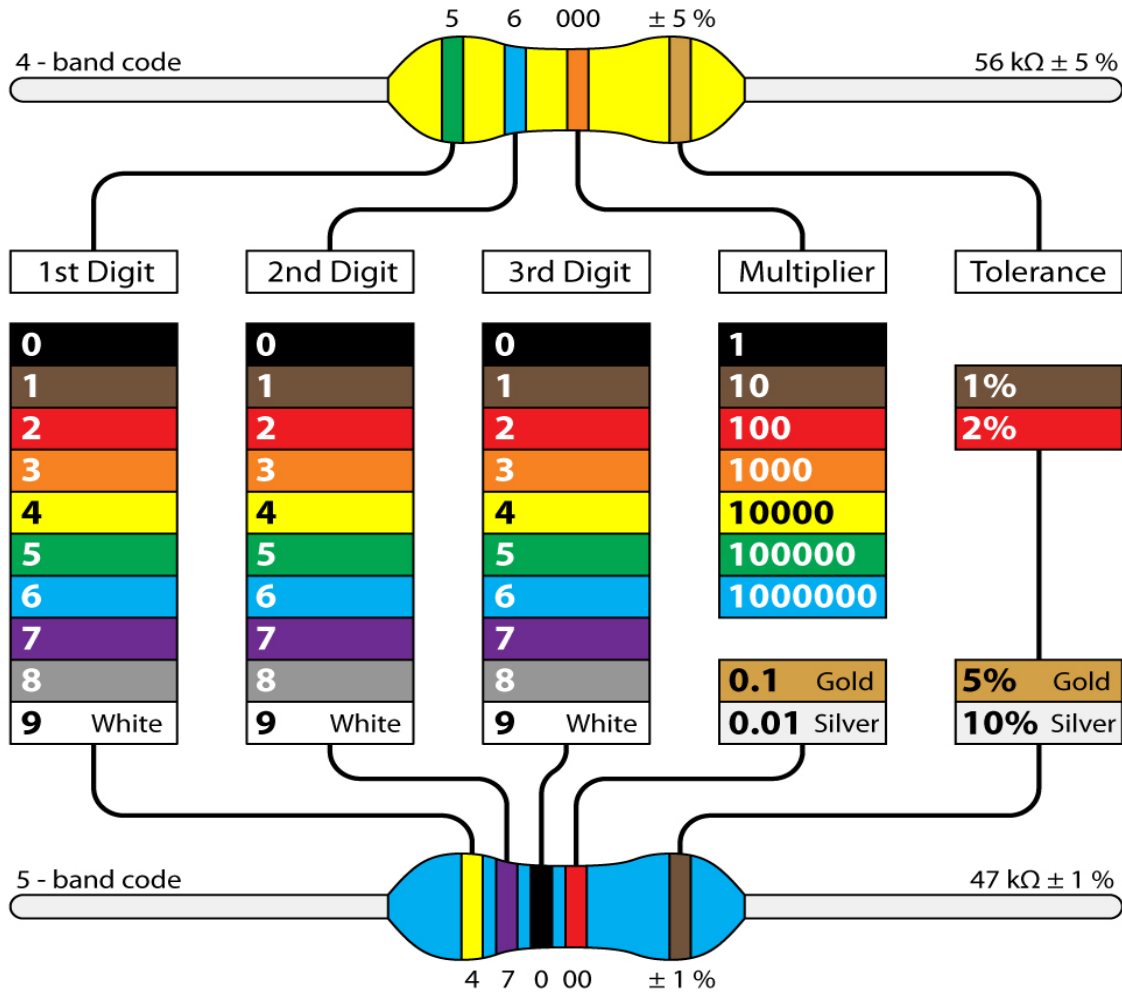


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DC Jack Battery Holder	2xAAA	1	n/a	Batteries not included	
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Resistor colour code



<u>100 ohms</u> Brown/Black/Brown/Gold	<u>1K ohms</u> Brown/Black/Red/Gold	<u>1 MEG</u> Brown/Black/Green/Gold
<u>300 ohms</u> Orange/Orange/Brown/Gold	<u>10K ohms</u> Brown/Black/Orange/Gold	

Step-by-Step Instruction

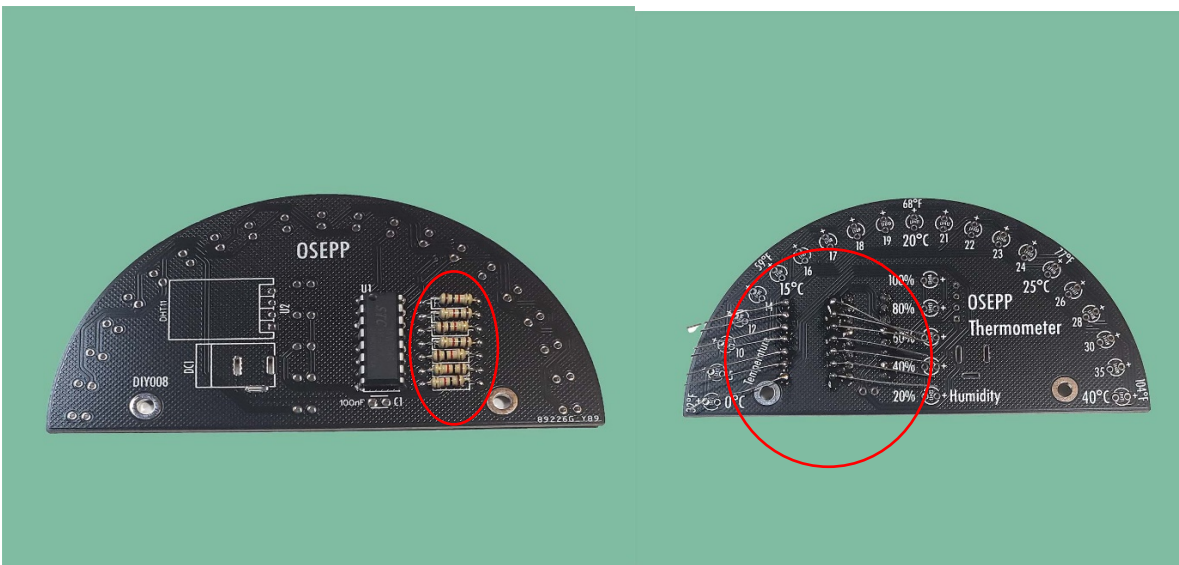
STEP 1: Place and solder IC into place

- Match the 'notch' on the IC to the notch on the PCB silkscreen image.



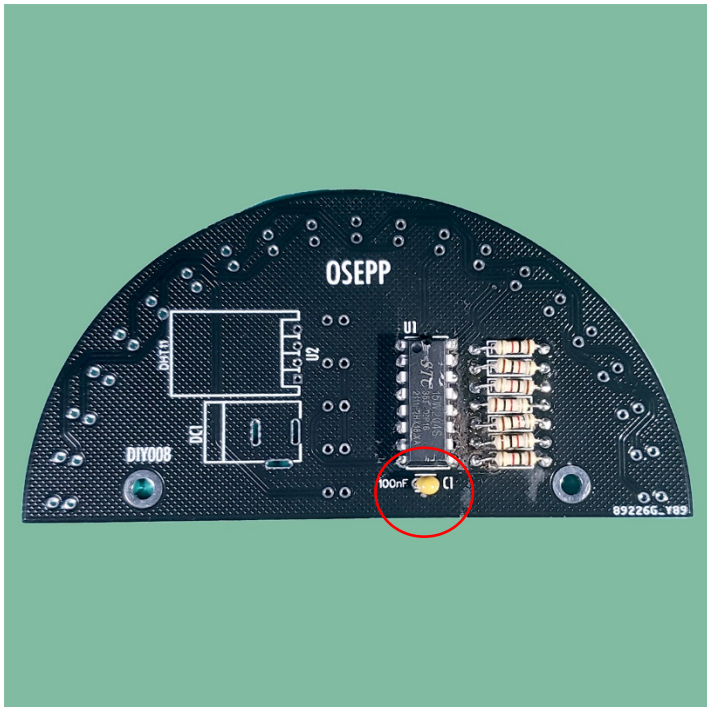
STEP 2: Place and solder the resistors into place.

- There is no polarity with the resistors
- Bend the component legs to hold in place for soldering
- A diagonal cutter is required (not Incl.) to cut off the leads after soldering.



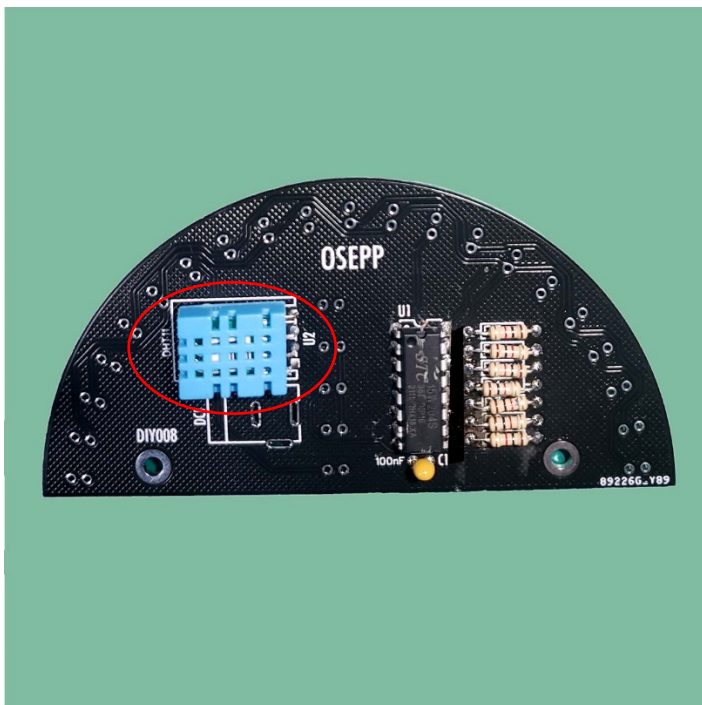
Step 3: Place and solder the **capacitor** in place.

- There is no polarity with the capacitor.



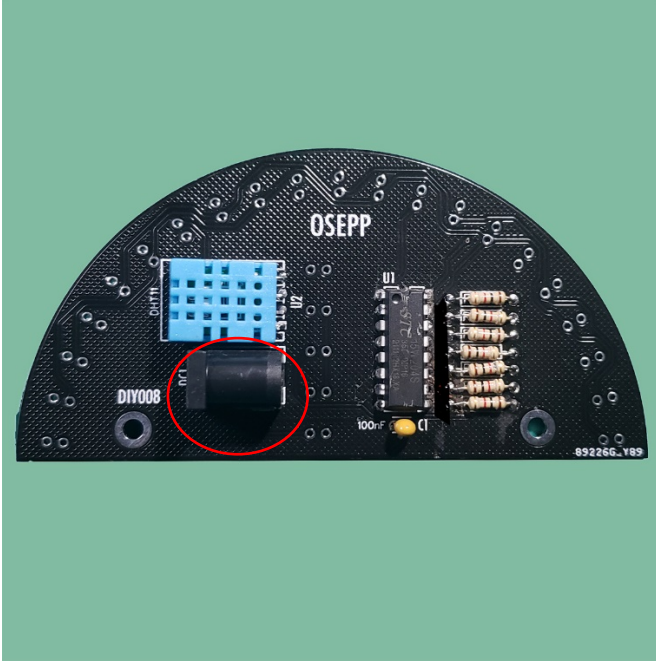
Step 4: Place and solder the **Humidity Sensor** into place.

- Need to pay attention to the polarity.



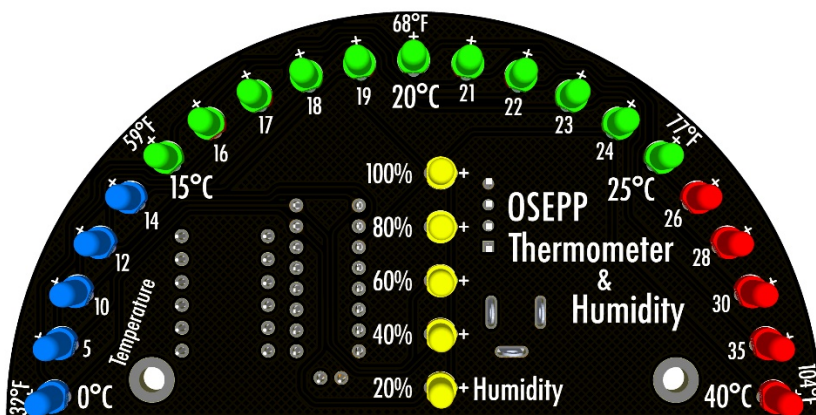
Step 5: Place and solder the **DC Jack**.

- Please pay attention to the placement position.
- TIP: bend the sensor flush to the PCB *before* soldering into place.



Step 6: Place and solder the **LEDs** into place (there will be spare LEDs left).

- The longer lead on the LED is positive (+).
- To hold the LED in place to solder, bend the lead on the back of the PCB.
- Refer to the image below for placement locations.



Finished image reference



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