

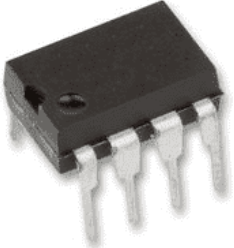
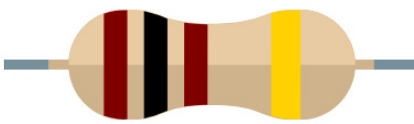








**Checklist for components issued during Week 7 F2F Studio (28 Sep – 02 Oct 2020)**

**(To be used for online studios in Week 8 and Week 9)**

| No. | Description                                     | Qty | Picture  | Remarks                                       |
|-----|---|-----|--|---|
| 1   | Motor + wheel set                               | 1   |    | Return at end of semester<br>W8S1             |
| 2   | L293D<br>(Dual H-Bridge Motor Driver IC)        | 1   |    | Return at end of semester<br>W8S1             |
| 3   | LM358   | 2   |   | Return at end of semester<br>W8S2, W9S1, W9S2 |
| 4   | 5% tolerance resistors<br>(normal 0.25 W type): |     |  | No need to return; keep for future studios    |
|     | 100 $\Omega$                                    | 1   |  | W8S2  |

|   |                                     |   |   |  |
|---|-------------------------------------|---|---|--|
|   | 1 k $\Omega$                        | 4 |  <p>Resistance <math>\Downarrow</math></p> <p>1 k<math>\Omega</math> <math>\pm</math>5%</p>   | W9S1, W9S2                                 |
|   | 15 k $\Omega$                       | 1 |  <p>Resistance <math>\Downarrow</math></p> <p>15 k<math>\Omega</math> <math>\pm</math>5%</p>  | W9S2                                       |
|   | 390 k $\Omega$                      | 1 |  <p>Resistance <math>\Downarrow</math></p> <p>390 k<math>\Omega</math> <math>\pm</math>5%</p> | W9S1, W9S2                                 |
| 5 | Ceramic Capacitors                  |   |   | No need to return; keep for future studios |
|   | 100 pf (code 101)                   | 1 |   | W9S1, W9S2                                 |
|   | 100 nF (code 104)                   | 1 |   | W9S2                                       |
| 6 | 2.2 $\mu$ F Electrolytic Capacitors | 1 |   | Return at end of semester<br>W9S2          |

|    |   |        |  |  |
|----|---|--------|--|--|
| 7  | Microphone - AMB-713-RC                   | 1      |     | Return at end of semester<br><br>W9S2                  |
| 8  | Pin headers for the AMB-713-RC microphone | 1 pair |     | No need to return; keep for future studios<br><br>W9S2 |
| 9  | Ultrasonic Sensor – HC-SR04               | 1      |   | Return at end of semester<br><br>W9S2                  |
| 10 | 1N4001 Diode                              | 2      |  | No need to return; keep for future studios<br><br>W9S2 |

Please also ensure that you have the following previously issued components. If you have lost/damaged some of them, please collect new ones when you come for Week 7's F2F studio.

- 2 k $\Omega$  variable resistor x 1 unit (you were issued 3 units previously)
- 560  $\Omega$  x 3 units
- 2.2 k $\Omega$  x 1 unit
- 10 k $\Omega$  x 1 unit
- 100 k $\Omega$  x 1 unit