

Figure 4. The soil moisture detection circuit waveform. (a) In air, the amplitude of u2 is greater than the amplitude of u1. (b) The first resonance occurs approaching 30 pF, approximatively where |u1|=|u2|. (c) When the soil moisture is high, the magnitude of u1 is much larger than u2. (d) Uout changes monotonously with Cx.