



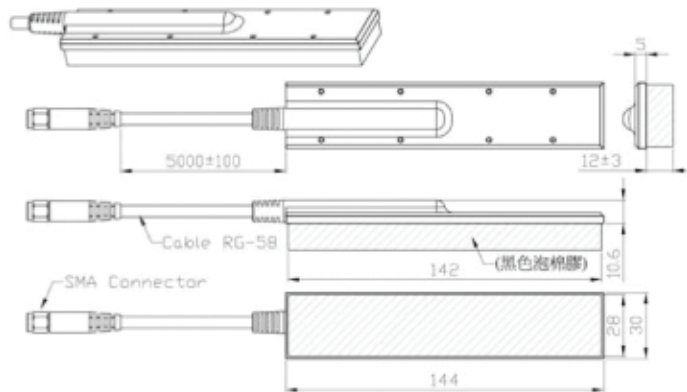
## Robust External Antenna Design

### Issue

The customer is looking for a robust antenna that can withstand the hard weather and environment for reading the meter measurement wirelessly. They tested many antennas from different suppliers, but all the antenna they tested didn't survive well in those difficult conditions.

### Action Takes

1. A discussion with customer for the environment that they are going to install the antenna.
2. Suggest the material and coating for the antenna.
3. Customized the mockup sample in 5 working days for customer's initial evaluation utilizing in-house prototype machine.



4. A discussion for the slight modification of the mockup sample after the initial field testing is completed.
5. Submit the final mockup sample for approval.
6. Create the tooling and submit the antenna approval sheet.

### Result

The customer is satisfied with the new design because there is no complaint from the final meter users and there is no failure antennas reported in the field until now. Our customer's solution is finally approved by government and wins a big tender.