

# NFC F25x25 L75 Molex 502128000 Antenna

## FEATURES



- Operating Frequency: 13.56 MHz
- RF Power: 2W
- RoHS: Yes
- Operating Temperature: -40 to +85°C



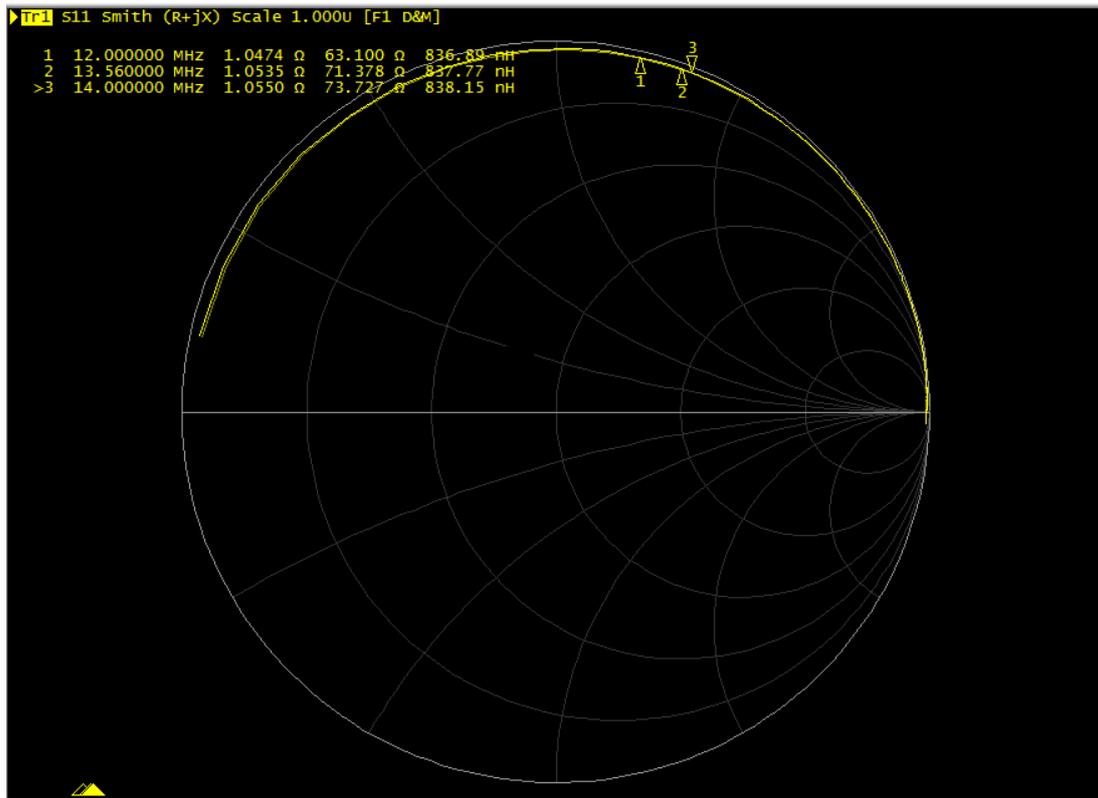
## PRODUCTS

| Part No. | Weight | Dimensions (L x WxH) | cable      | Color                  |
|----------|--------|----------------------|------------|------------------------|
| AINF007  |        | 25x25x0.16mm         | UL1007AW26 | Yellow+Black+Red+White |

## SPECIFICATIONS

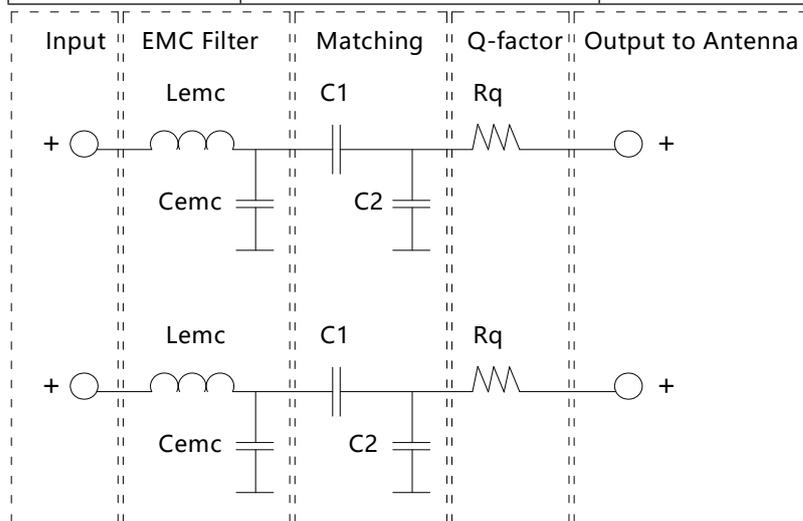
| PARAMETER                                     | SPECIFICATION                        |
|---|--------------------------------------|
| Frequency Bands, MHz                          | 13.56                                |
| Self Resonance Frequency, MHz                 | 100                                  |
| Impedance( $\Omega$ )                         | 50                                   |
| Inductance( $\mu$ H)                          | 0.837                                |
| Resistance( $\Omega$ )                        | 1.05                                 |
| Q-Factor                                      | 67.75                                |
| Matched Q Value                               | 20-40                                |
| Color   | Yellow                               |
| Storage Temperature Range ( $^{\circ}$ C)     | -40 $^{\circ}$ C to +85 $^{\circ}$ C |
| Operational Temperature Range ( $^{\circ}$ C) | -40 $^{\circ}$ C to +85 $^{\circ}$ C |
| Material Substance Compliance                 | REACH/RoHS Compliant                 |

## ELECTRICAL DATA

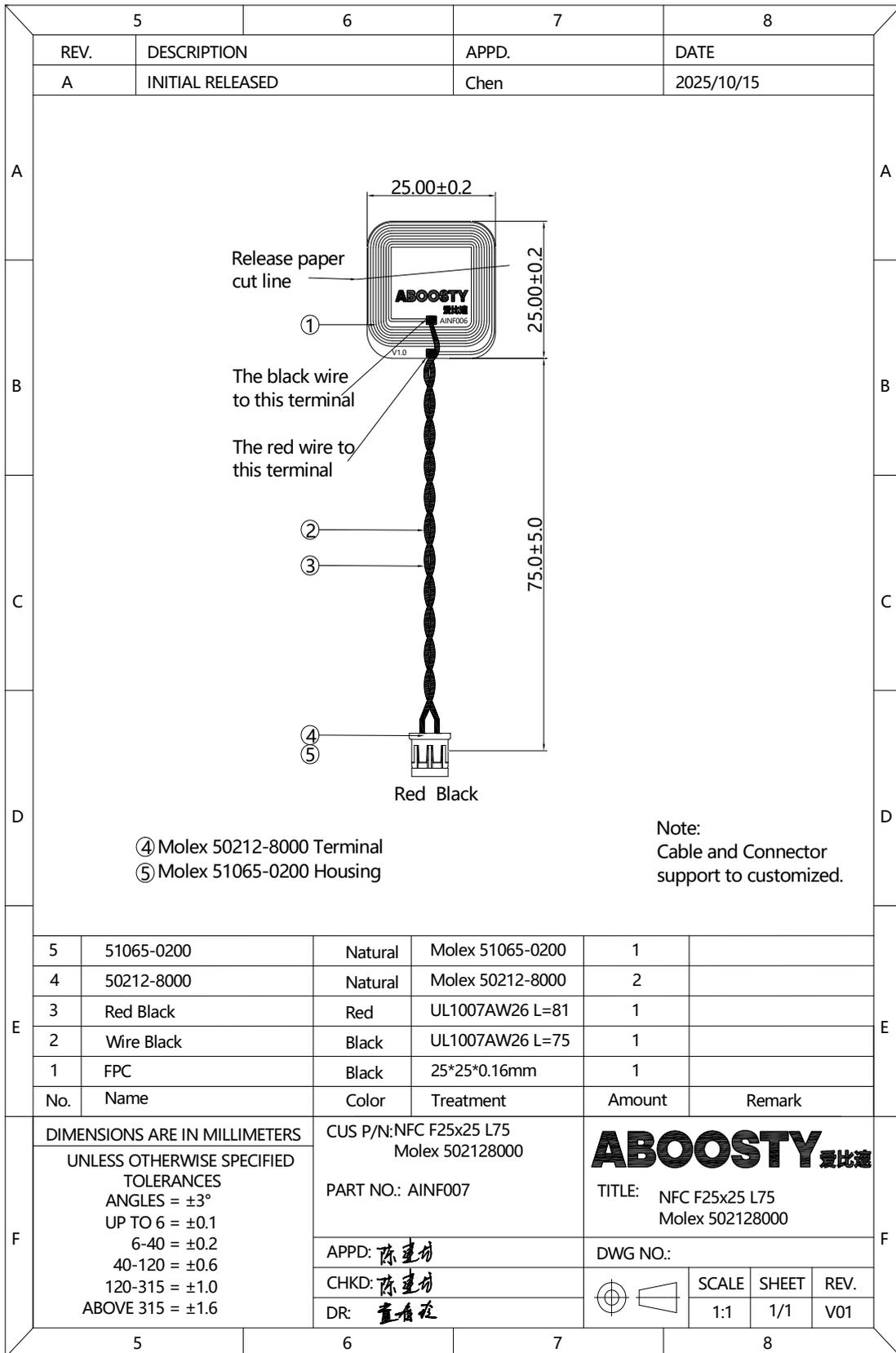


### Recommended matching network

| Component                         | Value  | Note   |
|-----------------------------------|--------|--|
| Lemc                              | 560 nH | Filterresonance at 15.4 MHz  |
| Cemc                              | 180 pF | Filterresonance at 15.4 MHz  |
| C1                                | 35 pF  | Antenna matching component, value depends on the antenna environ-ment Antenna matching |
| C2<br>Includes C2a and C2b values | 280 pF | Antenna matching component, value depends on the antennaenvironment Antenna matching   |
| Ra                                | 0 Ohm  | Ra resistors used to lower Q-value   |



### HOUSING CONFIGURATIONS



**Abousty™ is owned by Shenzhen MyAntenna RF Technology Co., Ltd. (often abbreviated as MyAntenna).**