



**THE DATASHEET OF  
ECS-MPIL0630-1R0MC**

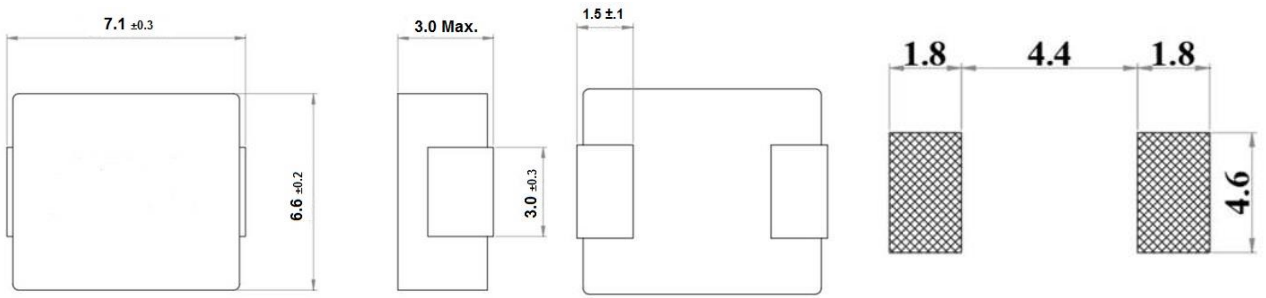


ECS-MPIL0630

SMD Power Inductor



# 1. Mechanical Dimension [Unit : mm]



# 2. Electrical Characteristics

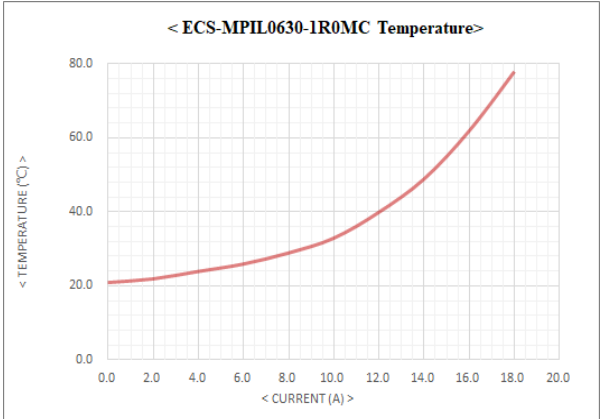
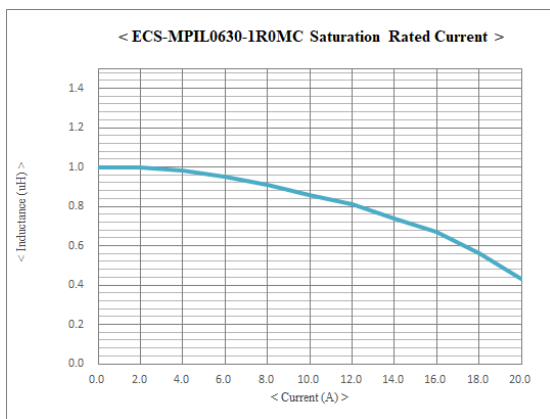
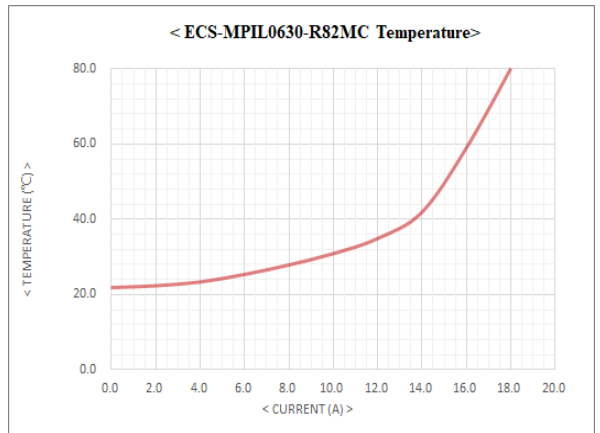
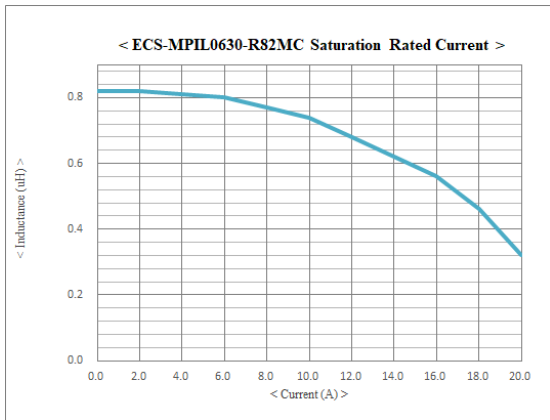
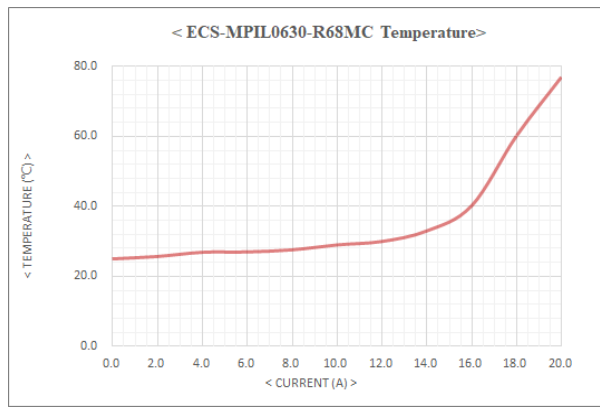
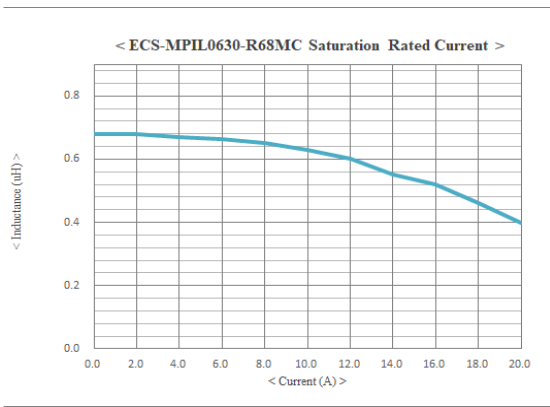
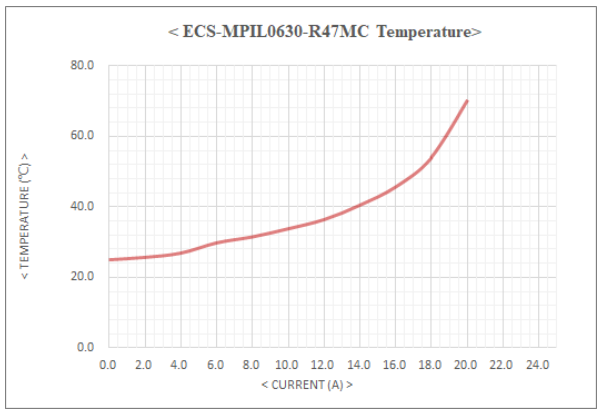
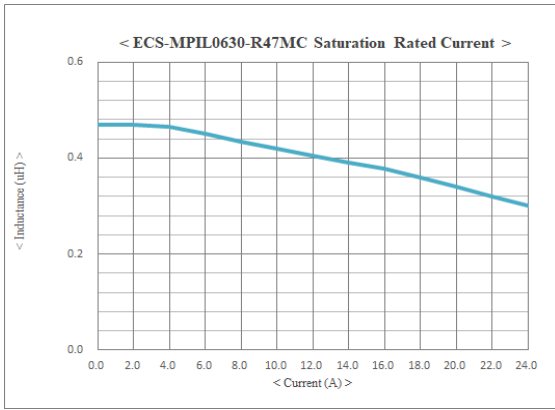
## ECS-MPIL0630 Series

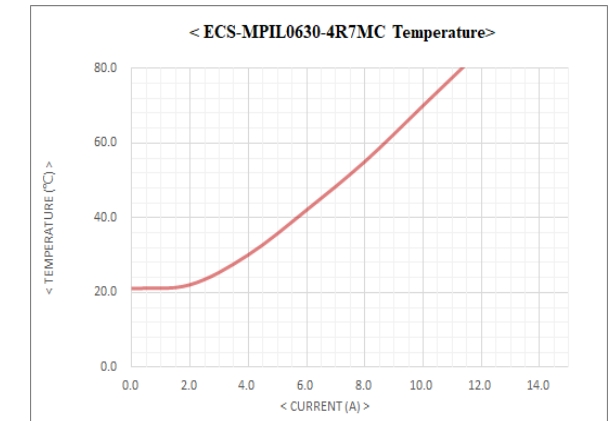
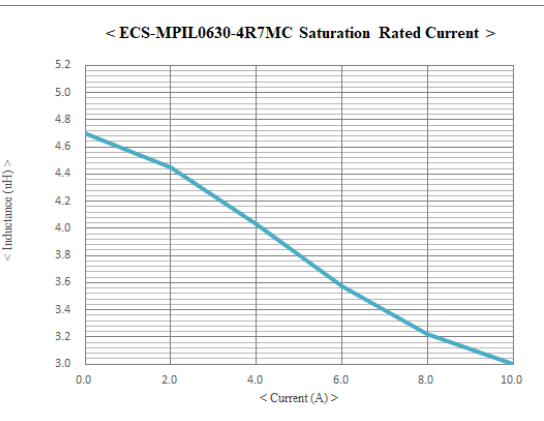
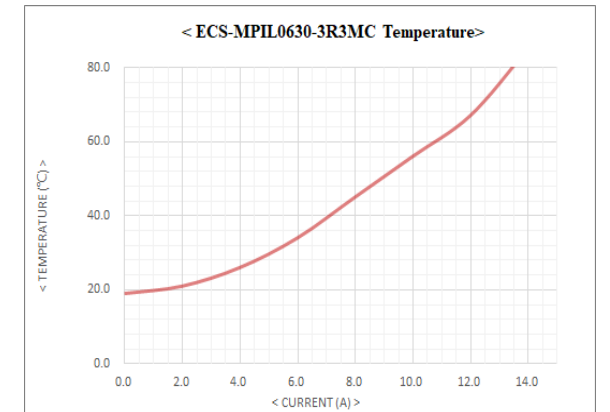
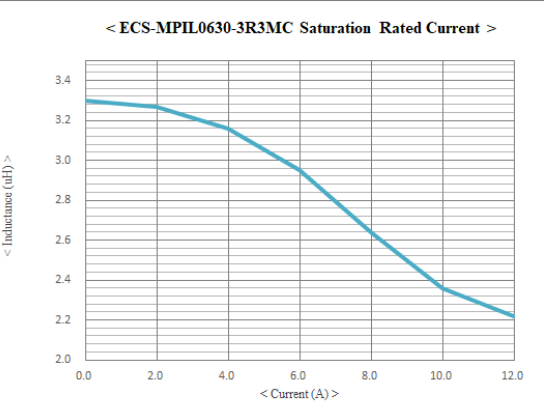
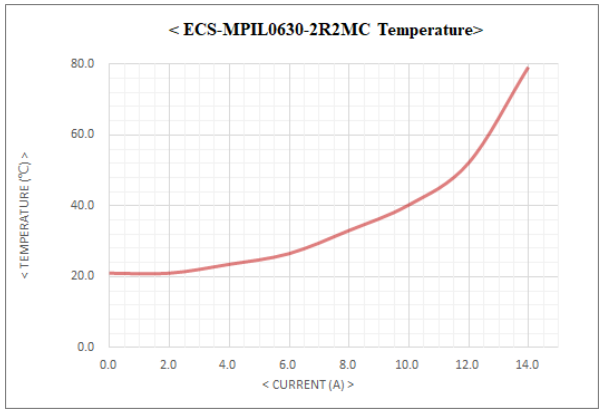
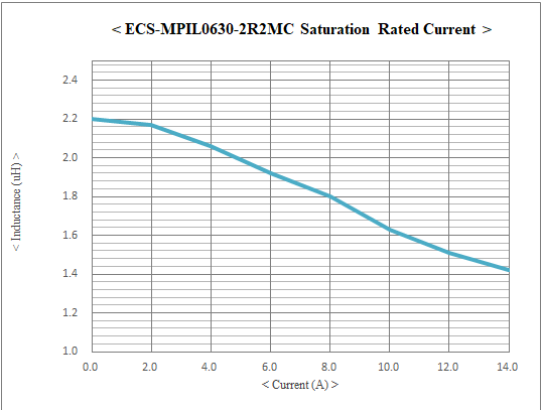
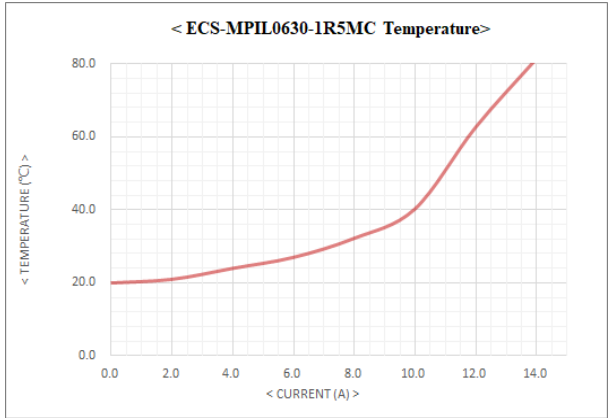
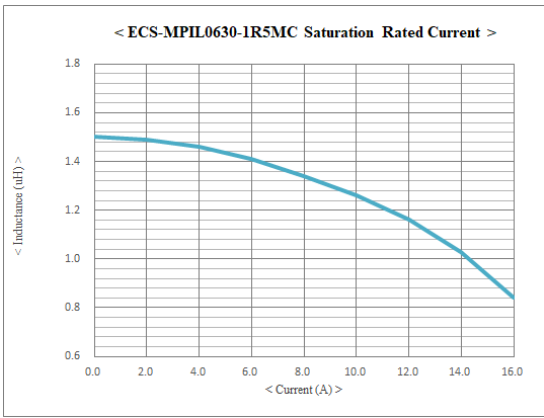
| Part No.           | Inductance<br>( $\mu\text{H} \pm 20\%$ ) | DC Resistance<br>( $\text{m}\Omega$ MAX) | DC Resistance<br>( $\text{m}\Omega$ TYP.) | Rated Current<br>(A MAX) | Heat Rating<br>Current DC(A) |
|--------------------|--|--|---|--------------------------|------------------------------|
| ECS-MPIL0630-R47MC | 0.47                                     | 4.1                                      | 3.4                                       | 20.0                     | 18.0                         |
| ECS-MPIL0630-R56MC | 0.56                                     | 4.5                                      | 4.25                                      | 18.0                     | 16.5                         |
| ECS-MPIL0630-R68MC | 0.68                                     | 5.3                                      | 4.8                                       | 17.0                     | 16.0                         |
| ECS-MPIL0630-R82MC | 0.82                                     | 6.0                                      | 5.4                                       | 16.0                     | 14.0                         |
| ECS-MPIL0630-1R0MC | 1.0                                      | 9.2                                      | 8.4                                       | 15.0                     | 12.0                         |
| ECS-MPIL0630-1R5MC | 1.5                                      | 12.1                                     | 10.6                                      | 14.0                     | 10.0                         |
| ECS-MPIL0630-2R2MC | 2.2                                      | 15.0                                     | 13.5                                      | 10.0                     | 8.0                          |
| ECS-MPIL0630-3R3MC | 3.3                                      | 22.0                                     | 18.0                                      | 9.5                      | 6.5                          |
| ECS-MPIL0630-4R7MC | 4.7                                      | 33.0                                     | 28.0                                      | 6.5                      | 5.5                          |
| ECS-MPIL0630-5R6MC | 5.6                                      | 42.0                                     | 37.5                                      | 6.3                      | 4.8                          |
| ECS-MPIL0630-6R8MC | 6.8                                      | 50.0                                     | 43.9                                      | 6.0                      | 4.5                          |
| ECS-MPIL0630-100MC | 10                                       | 68.0                                     | 62.0                                      | 5.5                      | 4.0                          |
| ECS-MPIL0630-150MC | 15                                       | 95.0                                     | 90.0                                      | 4.0                      | 3.0                          |
| ECS-MPIL0630-220MC | 22                                       | 135.0                                    | 125.0                                     | 3.0                      | 2.5                          |

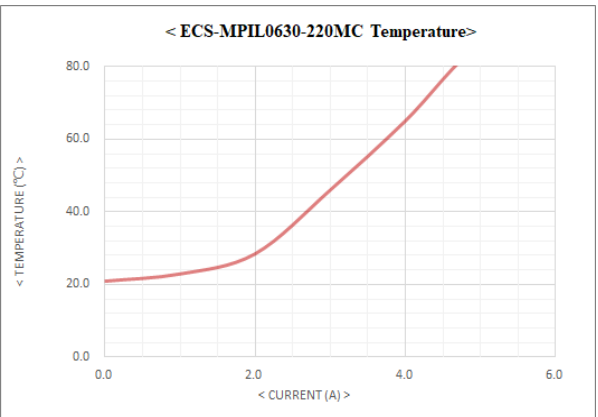
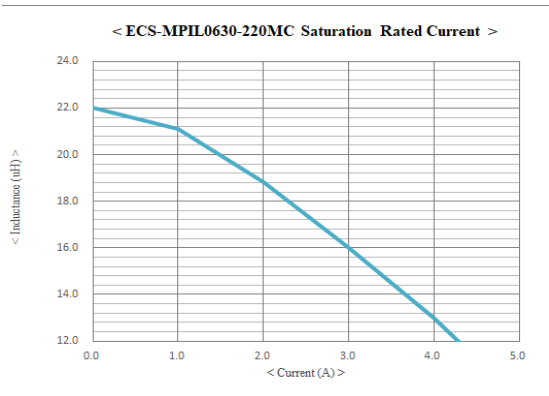
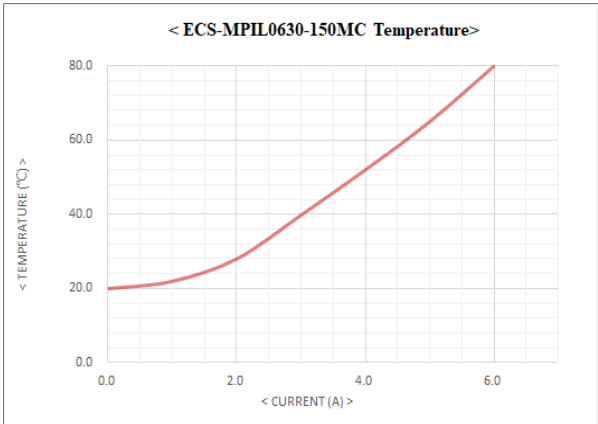
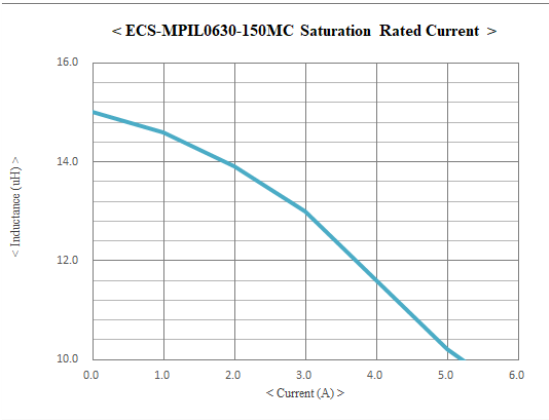
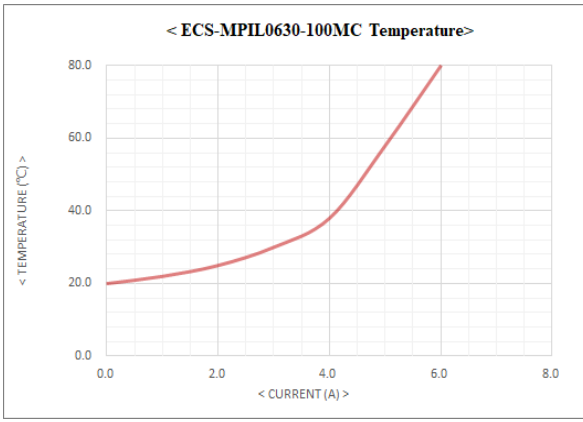
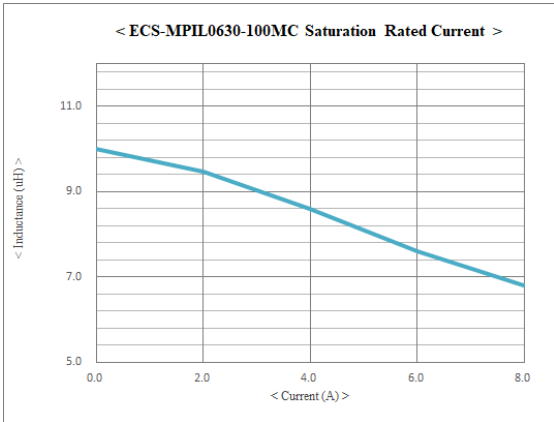
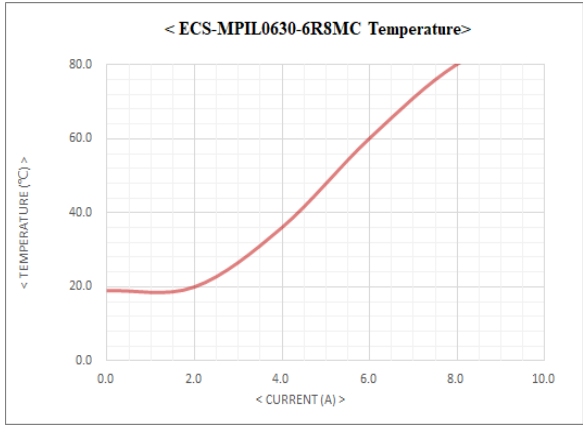
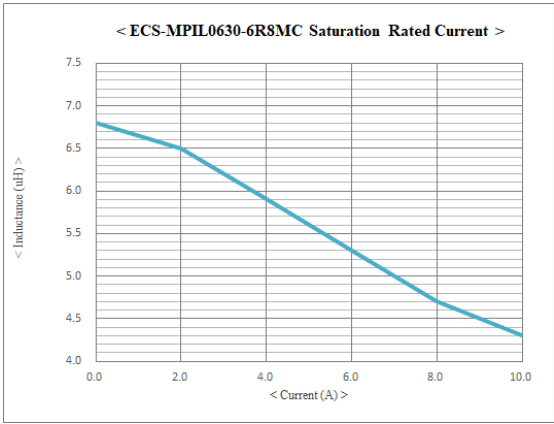
Storage and Operating Temperature:  $-40 \sim +125 \text{ }^\circ\text{C}$

Measuring Frequency (L) : 100KHz/0.1V

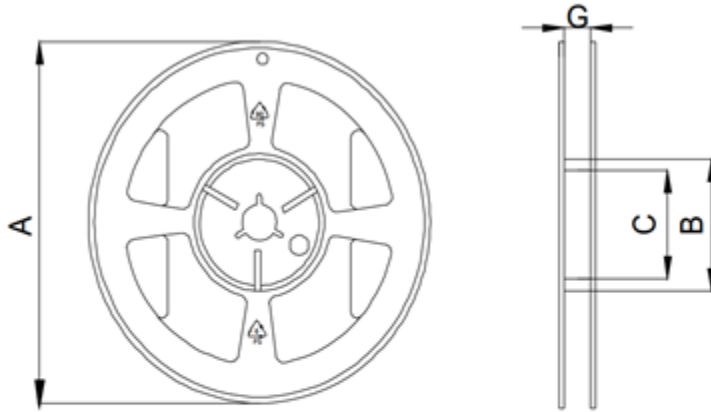
Rated Current: D.C. Current at which the Inductance drops 30%(MAX.) from its value without current





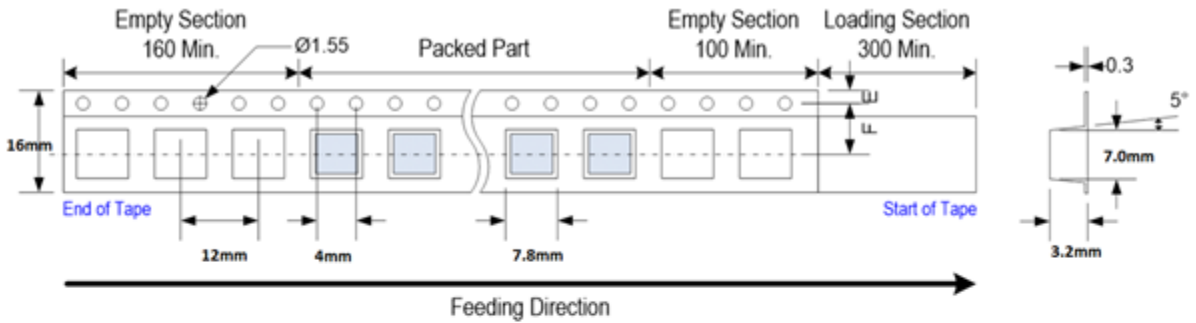


### 7. REEL DIMENSION (mm)

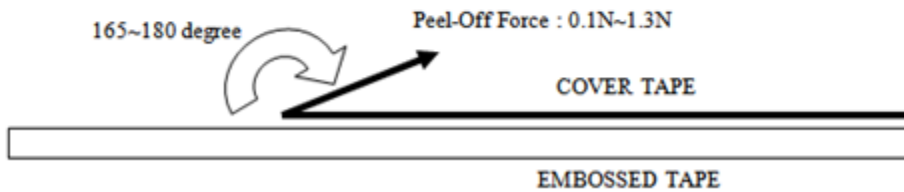


| A   | B   | C  | G         |
|-----|-----|----|-----------|
| 330 | 100 | 13 | <b>16</b> |

### 8. EMBOSSED TAPE DIMENSIONS (mm)



### 9. PEEL-OFF STRENGTH








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