

|                          |   |
|--------------------------|---|
| Product Status           | Production  |
| Applications             | Automotive Grade  |
|                          | AEC-Q200  |
|                          | No Directivity  |
| Feature                  | Multilayer  |
|                          | Shield  |
|                          | Ferrite Core  |
| Series   Type            | MLF   |
| Brand                    | TDK   |
| Environmental Compliance |  RoHS  REACH  Halogen Free  Lead Free |



| Size                         |                      |
|------------------------------|----------------------|
| Length(L)                    | 1.60mm $\pm 0.15$ mm |
| Width(W)                     | 0.80mm $\pm 0.15$ mm |
| Thickness   Height           | 0.80mm $\pm 0.15$ mm |
| Recommended Land Pattern (A) | 0.60mm Nom.          |
| Recommended Land Pattern (B) | 0.80mm Nom.          |
| Recommended Land Pattern (C) | 0.80mm Nom.          |

| Electrical Characteristics              |                               |
|---|-------------------------------|
| Inductance                              | 18 $\mu$ H $\pm 20\%$ at 1MHz |
| Rated Current (L Change) [Typ.]         |                               |
| Rated Current (L Change) [Max.]         | 2mA                           |
| Rated Current (Temperature Rise) [Typ.] |                               |
| Rated Current (Temperature Rise) [Max.] |                               |
| DC Resistance [Typ.]                    | 850m $\Omega$                 |
| DC Resistance [Max.]                    | 1.6 $\Omega$                  |
| Rated Voltage [Max.]                    |                               |
| Self Resonant Frequency [Min.]          | 20MHz                         |
| Self Resonant Frequency [Typ.]          | 40MHz                         |
| Q [Min.]                                | 20 at 1MHz                    |
| Q [Typ.]                                | 40 at 1MHz                    |

| Other                 |                          |
|-----------------------|--------------------------|
| Operating Temp. Range | -40 to 85°C              |
| Soldering Method      | Reflow<br>Iron Soldering |
| AEC-Q200              | YES                      |

! Images are for reference only and show exemplary products.

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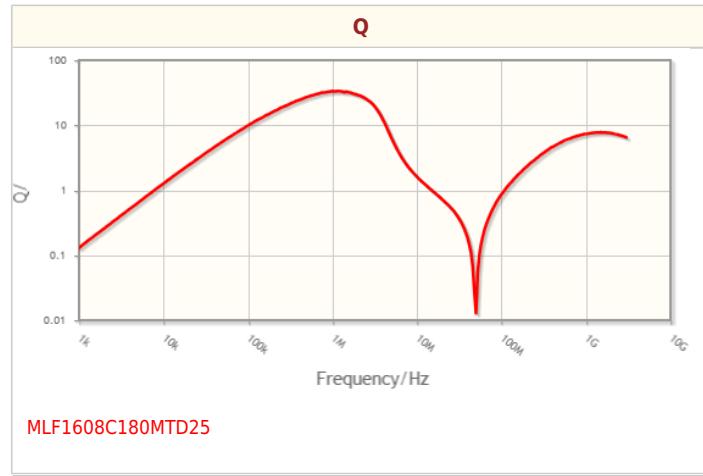
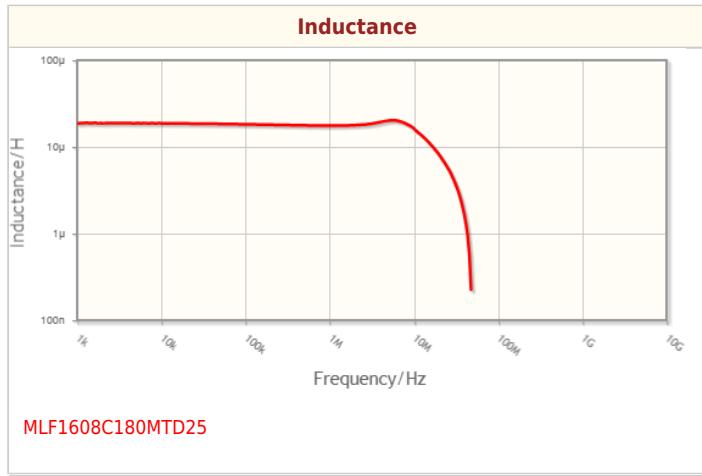
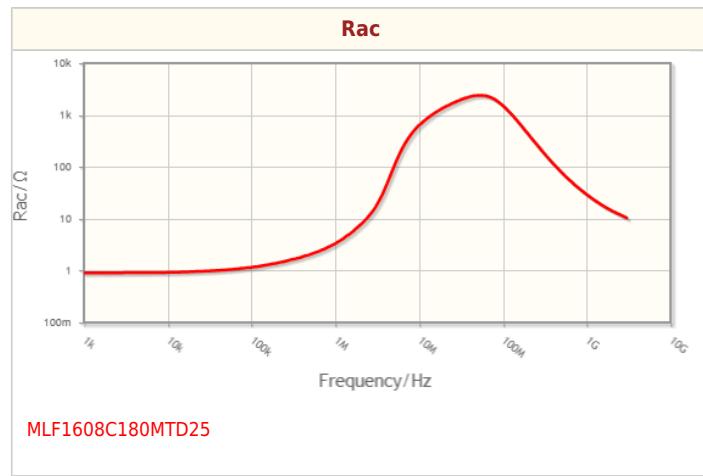
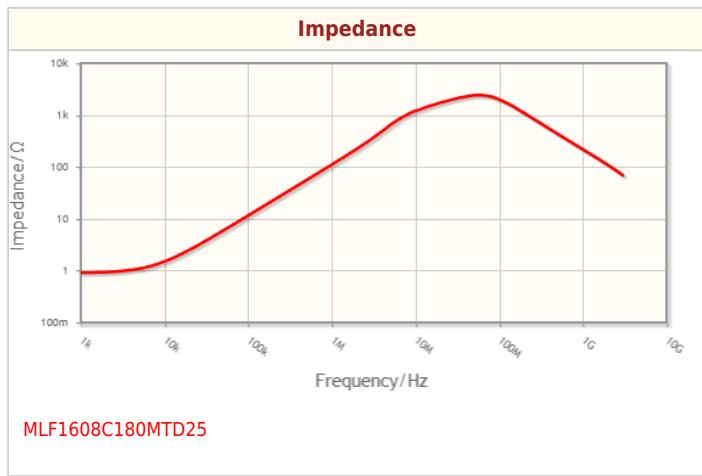
! All specifications are subject to change without notice.

## MLF1608C180MTD25

|                  |                                    |
|------------------|------------------------------------|
| Packing          | Punched (Paper)Taping [180mm Reel] |
| Package Quantity | 4000pcs                            |
| Weight           | 0.004g                             |

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## Characteristic Graphs (This is reference data, and does not guarantee the products characteristics.)



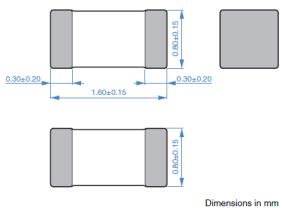
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## Associated Images

Shapes and Dimensions



Land Pattern (Terminal Connection)



Dimensions in mm

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