

|                          |                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------|
| Product Status           | Production                                                                                     |
| Applications             | Automotive Grade                                                                               |
| Feature                  | AEC-Q200AEC-Q200<br>MultilayerMultilayer<br>Non-Mag CoreNon-Magnetic Core (Dielectric Ceramic) |
| Series   Type            | MLG                                                                                            |
| Brand                    | TDK                                                                                            |
| Environmental Compliance | <div><div>RoHS</div><div>REACH</div><div>Halogen Free</div><div>Lead Free</div></div>          |



| Size                         |                |
|------------------------------|----------------|
| Length(L)                    | 1.00mm ±0.05mm |
| Width(W)                     | 0.50mm ±0.05mm |
| Thickness   Height           | 0.50mm ±0.05mm |
| Recommended Land Pattern (A) | 0.50mm Nom.    |
| Recommended Land Pattern (B) | 0.40mm Nom.    |
| Recommended Land Pattern (C) | 0.50mm Nom.    |

| Electrical Characteristics     |                        |
|--------------------------------|------------------------|
| Inductance                     | 2.4nH ±0.2nH at 100MHz |
| Rated Current                  | 800mA                  |
| DC Resistance [Typ.]           | 80mΩ                   |
| DC Resistance [Max.]           | 150mΩ                  |
| Self Resonant Frequency [Min.] | 7GHz                   |
| Self Resonant Frequency [Typ.] | 8.2GHz                 |
| Q [Min.]                       | 7 at 100MHz            |
| Q [Typ.]                       | 11 at 100MHz           |

| Other                 |                                                    |
|-----------------------|----------------------------------------------------|
| Operating Temp. Range | -55 to 125°C                                       |
| Soldering Method      | Reflow<br>Iron Soldering                           |
| AEC-Q200              | YES                                                |
| Packing               | Punched (Paper)Taping [180mm Reel, Tape width 8mm] |
| Package Quantity      | 10000pcs                                           |
| Weight                | 0.001g                                             |

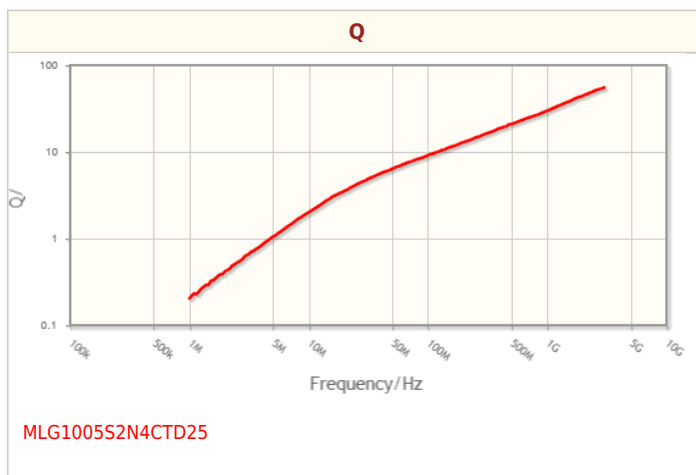
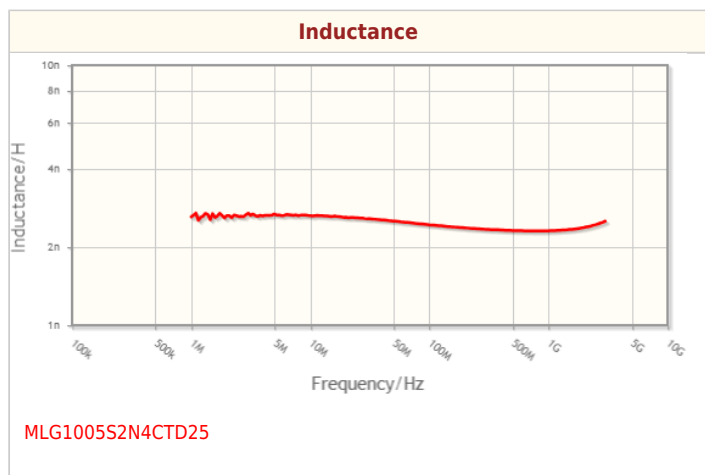
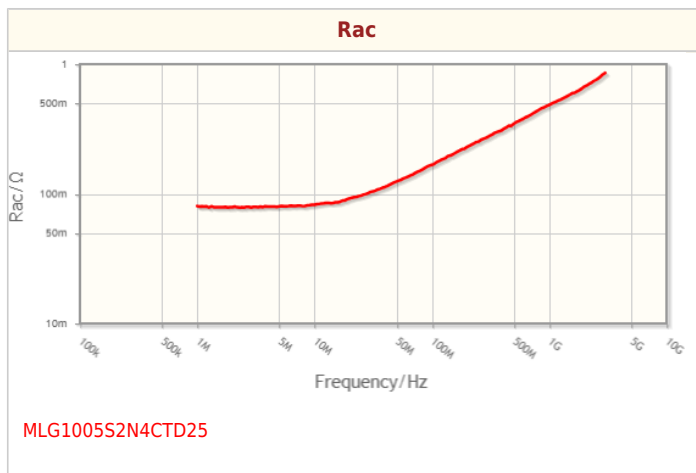
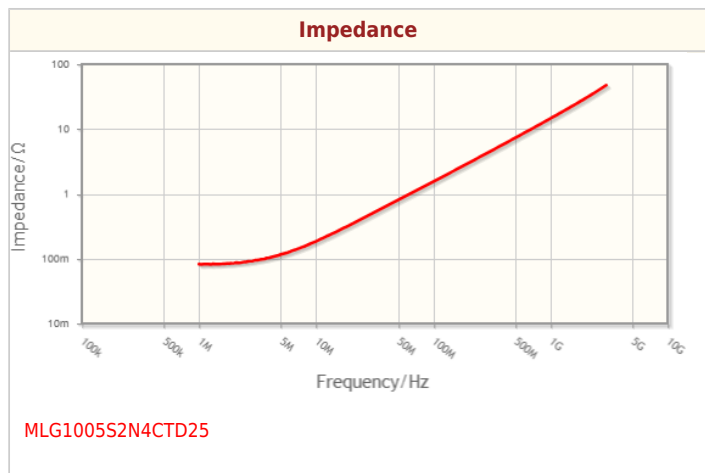
! Images are for reference only and show exemplary products.

! This PDF document was created based on the data listed on the TDK Corporation website.

! All specifications are subject to change without notice.

# MLG1005S2N4CTD25

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



### Associated Images

