

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Status           | EOL Announced                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                          | Recommended Alternate Part No. : <a href="#">MLG1005S33NJTD25</a> (Interchangeability is not guaranteed.)                                                                                                                                                                                                                                                                                                                           |
|                          | Discontinue Issue Date : May.24, 2021                                                                                                                                                                                                                                                                                                                                                                                               |
|                          | Last Purchase Order Date : Mar.31, 2026                                                                                                                                                                                                                                                                                                                                                                                             |
|                          | Last Shipment Date : Jun.30, 2026                                                                                                                                                                                                                                                                                                                                                                                                   |
| Applications             | Automotive Grade                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Feature                  | <a href="#">AEC-Q200</a> AEC-Q200                                                                                                                                                                                                                                                                                                                                                                                                   |
|                          | <a href="#">No Directivity</a> No Directivity                                                                                                                                                                                                                                                                                                                                                                                       |
|                          | <a href="#">Multilayer</a> Multilayer                                                                                                                                                                                                                                                                                                                                                                                               |
|                          | Non-Mag CoreNon-Magnetic Core (Dielectric Ceramic)                                                                                                                                                                                                                                                                                                                                                                                  |
|                          | High Self Resonant Frequency                                                                                                                                                                                                                                                                                                                                                                                                        |
| Series   Type            | MLK                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Brand                    | TDK                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Environmental Compliance | <div><div>RoHS</div><div>REACH SVHC Free</div><div>Halogen Free</div><div>Lead Free</div></div> |



| Size                         |                |
|------------------------------|----------------|
| Length(L)                    | 1.00mm ±0.10mm |
| Width(W)                     | 0.50mm ±0.10mm |
| Thickness   Height           | 0.50mm ±0.10mm |
| Recommended Land Pattern (A) | 0.50mm Nom.    |
| Recommended Land Pattern (B) | 0.40mm Nom.    |
| Recommended Land Pattern (C) | 0.50mm Nom.    |

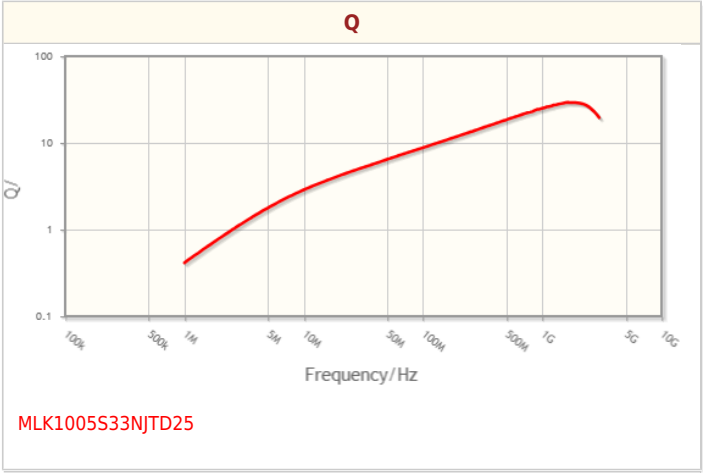
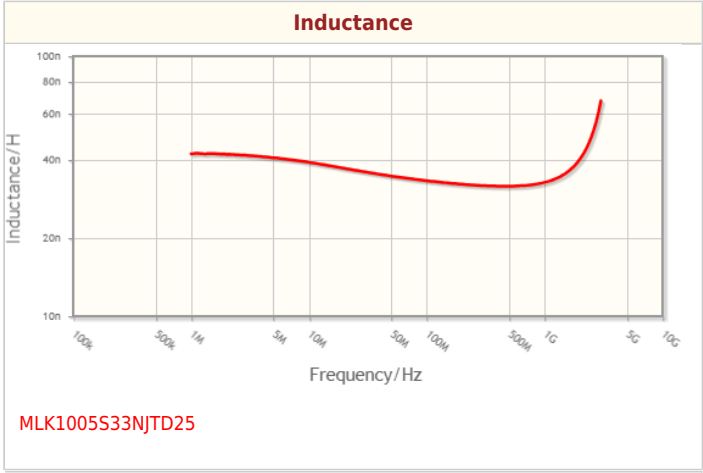
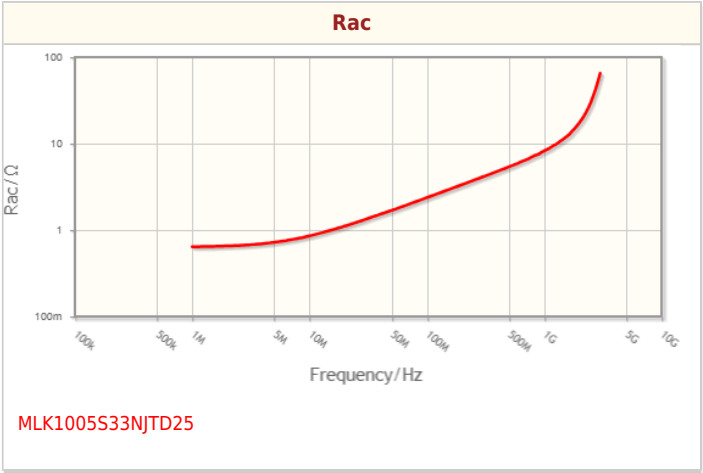
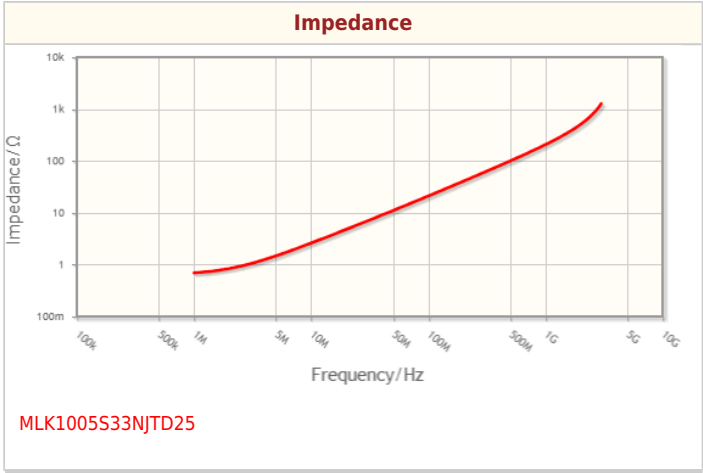
| Electrical Characteristics     |                    |
|--------------------------------|--------------------|
| Inductance                     | 33nH ±5% at 100MHz |
| Rated Current                  | 200mA              |
| DC Resistance [Typ.]           | 590mΩ              |
| DC Resistance [Max.]           | 900mΩ              |
| Self Resonant Frequency [Min.] | 2.5GHz             |
| Self Resonant Frequency [Typ.] | 3.5GHz             |
| Q [Min.]                       | 7 at 100MHz        |
| Q [Typ.]                       | 9 at 100MHz        |

| Other                 |                |
|-----------------------|----------------|
| Operating Temp. Range | -55 to 125°C   |
| Soldering Method      | Reflow         |
|                       | Iron Soldering |

! 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.

|                  |                                                    |
|------------------|----------------------------------------------------|
| AEC-Q200         | YES                                                |
| Packing          | Punched (Paper)Taping [180mm Reel, Tape width 8mm] |
| Package Quantity | 10000pcs                                           |
| Weight           | 0.001g                                             |

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



### Associated Images

