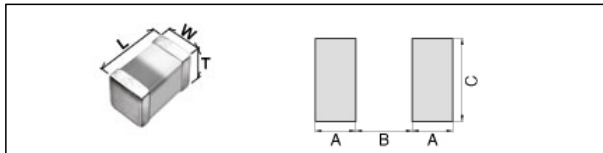


# MLG1005S82NJT000

|              |                                                                                   |                                        |
|--------------|-----------------------------------------------------------------------------------|----------------------------------------|
| Applications |  | Commercial Grade                       |
| Feature      |  | Multilayer                             |
|              |  | Non-Magnetic Core (Dielectric Ceramic) |
| Series       | MLG Series / MLG1005S Type                                                        |                                        |
| Status       | Production                                                                        |                                        |



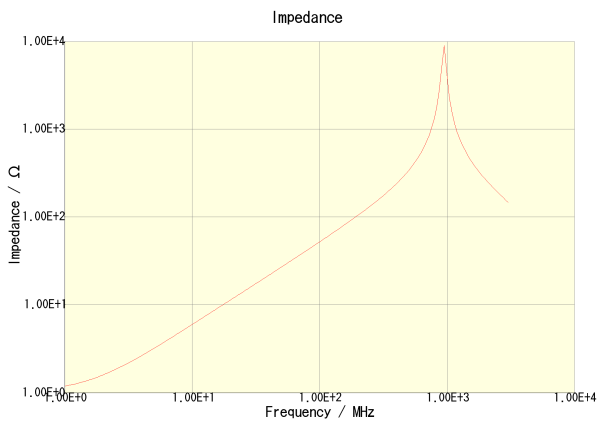
| Size                         |                  |
|------------------------------|------------------|
| Length(L)                    | 1.00mm +/-0.05mm |
| Width(W)                     | 0.50mm +/-0.05mm |
| Thickness(T)                 | 0.50mm +/-0.05mm |
| Recommended Land Pattern (A) | 0.50mm Nom.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

| Electrical Characteristics              |                      |
|-----------------------------------------|----------------------|
| Inductance                              | 82nH +/-5% at 100MHz |
| Rated Current (Temperature Rise) [Max.] | 200mA (20degC Rise)  |
| Self-Resonant Frequency [Min.]          | 700MHz               |
| Self-Resonant Frequency [Typ.]          | 1GHz                 |
| Q [Min.]                                | 8 at 100MHz          |
| Q [Typ.]                                | 11 at 100MHz         |
| DC Resistance [Nom.]                    | 1.01Ω                |
| DC Resistance [Max.]                    | 1.6Ω                 |

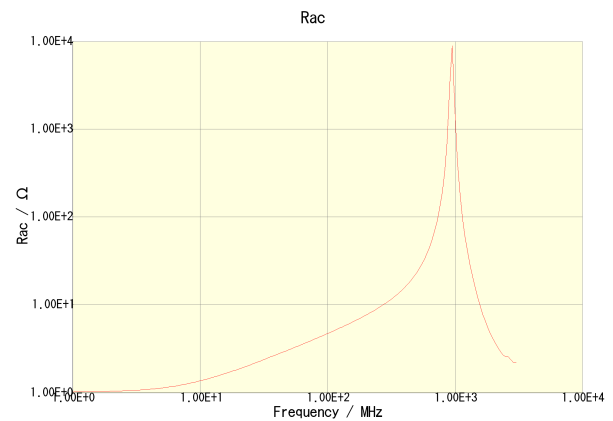
| Other                                             |                                    |
|---------------------------------------------------|------------------------------------|
| Operating Temp. Range (Including Self-Temp. Rise) | -55 to 125degC                     |
| Soldering Method                                  | Reflow, Iron Soldering             |
| AEC Q200                                          | No                                 |
| Packing                                           | Punched (Paper)Taping [180mm Reel] |
| Package Quantity                                  | 10000Pcs Min.                      |
| Weight                                            | 0.001g                             |

# MLG1005S82NJT000

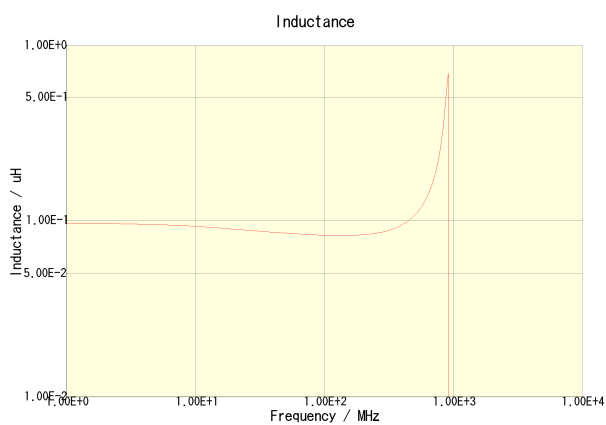
## Characteristic Graphs (This is reference data, and does not guarantee the product's characteristics.)



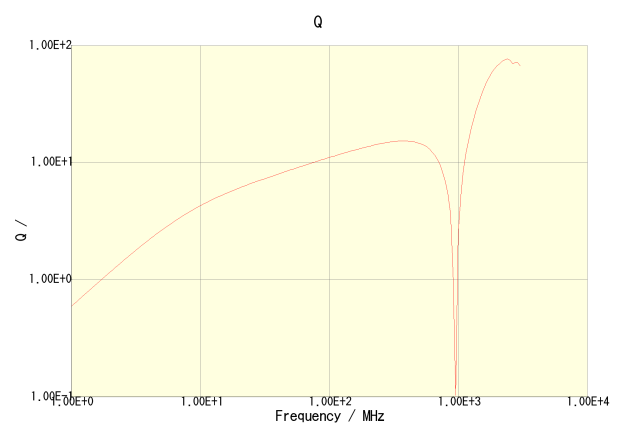
MLG1005S82NJT000



MLG1005S82NJT000



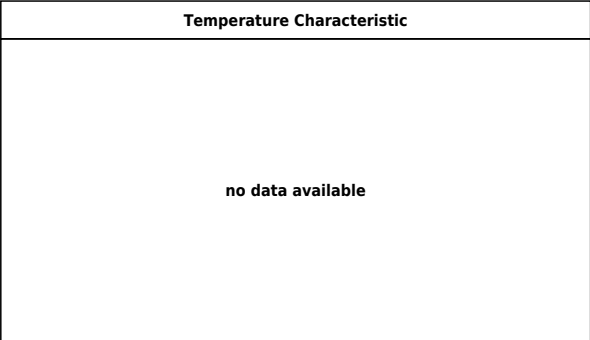
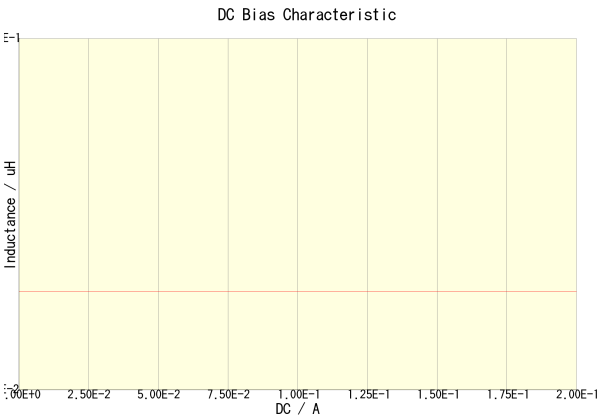
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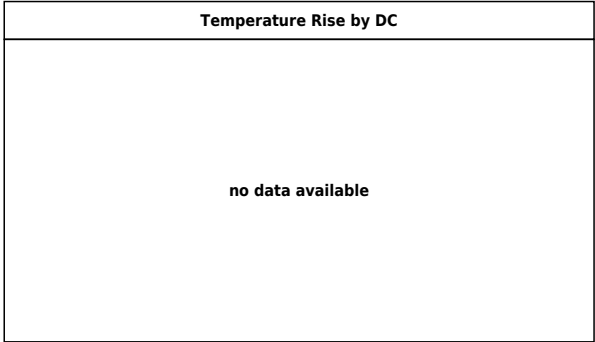
MLG1005S82NJT000

MLG1005S82NJT000

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



MLG1005S82NJT000(Amb. Temp. = 20degc)



•This PDF document was created based on the data listed on the TDK Corporation website.  
•All specifications are subject to change without notice.