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# MLG1005S Series Inductor Kit

Consumer Grade High Frequency Inductor Kit



The TDK MLG1005S Series High Frequency Inductors are High Q type inductors for high-frequency circuits. Their advanced monolithic structure is formed using a multilayering and sintering process with ceramic and conductive materials for high-frequency. This series has an operating temperature range of  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .

### Features

- Unique ceramic material and configuration allows for High Q characteristics that are equivalent to that of air core wound inductors
- Compared with existing products, the size was greatly reduced, making it optimal for fine-pitch circuits

High-Frequency

Consumer



[Datasheet](#)

### Applications

- Smart phones
- Bluetooth
- UWB
- Tablets
- W-LAN
- High frequency modules (PAs, VCOs, FEMs)
- Other mobile communication circuits

## MLG1005S Series Inductor Kit Includes:

Case Size: 1005

Inductance Range: 0.3nH-390nH (standard tolerance)

Current Rating: 1000mA-50mA

SRF: 10GHz-0.3GHz

*Note that three part numbers are needed to order the complete range of inductance:*

| Digi-Key Part Number | Inductance Range | Number of Pieces in Kit             |
|----------------------|------------------|-------------------------------------|
| 445-172917-KIT-ND    | 0.3-8.2nH        | 20 pieces per value—580 pcs total   |
| 445-172918-KIT-ND    | 9.1-150nH        | 20 pieces per value - 600 pcs total |
| 445-172919-KIT-ND    | 160-390nH        | 20 pieces per value - 200 pcs total |

Now Available



[445-172917-KIT-ND](#) & [445-172918-KIT-ND](#) & [445-172919-KIT-ND](#)

*Click the links above for ordering information.*

## MLG1005S Series Inductor Kit Includes:

| Digi-Key Part Number | TDK Item List    | Item Description |
|----------------------|------------------|------------------|
| MLG1005S-1-KIT       | MLG1005S0N3CT000 | 1005 0.3±0.2nH   |
|                      | MLG1005S0N4CT000 | 1005 0.4±0.2nH   |
|                      | MLG1005S0N5CT000 | 1005 0.5±0.2nH   |
|                      | MLG1005S0N6CT000 | 1005 0.6±0.2nH   |
|                      | MLG1005S0N7CT000 | 1005 0.7±0.2nH   |
|                      | MLG1005S0N9CT000 | 1005 0.9±0.2nH   |
|                      | MLG1005S1N0CT000 | 1005 1.0±0.2nH   |
|                      | MLG1005S1N1CT000 | 1005 1.1±0.2nH   |
|                      | MLG1005S1N2CT000 | 1005 1.2±0.2nH   |
|                      | MLG1005S1N3CT000 | 1005 1.3±0.2nH   |
|                      | MLG1005S1N5CT000 | 1005 1.5±0.2nH   |
|                      | MLG1005S1N6CT000 | 1005 1.6±0.2nH   |
|                      | MLG1005S1N8CT000 | 1005 1.8±0.2nH   |
|                      | MLG1005S2N0CT000 | 1005 2.0±0.2nH   |
|                      | MLG1005S2N2CT000 | 1005 2.2±0.2nH   |
|                      | MLG1005S2N4CT000 | 1005 2.4±0.2nH   |
|                      | MLG1005S2N7CT000 | 1005 2.7±0.2nH   |
|                      | MLG1005S3N0CT000 | 1005 3.0±0.2nH   |
|                      | MLG1005S3N3CT000 | 1005 3.3±0.2nH   |
|                      | MLG1005S3N6CT000 | 1005 3.6±0.2nH   |
|                      | MLG1005S3N9CT000 | 1005 3.9±0.2nH   |
|                      | MLG1005S4N3ST000 | 1005 4.3±0.3nH   |
|                      | MLG1005S4N7ST000 | 1005 4.7±0.3nH   |
|                      | MLG1005S5N1ST000 | 1005 5.1±0.3nH   |
|                      | MLG1005S5N6ST000 | 1005 5.6±0.3nH   |
|                      | MLG1005S6N2ST000 | 1005 6.2±0.3nH   |
|                      | MLG1005S6N8JT000 | 1005 6.8±5%      |
|                      | MLG1005S7N5JT000 | 1005 7.5±5%      |
| MLG1005S8N2JT000     | 1005 8.2±5%      |                  |
| MLG1005S-2-KIT       | MLG1005S9N1JT000 | 1005 9.1±5%      |
|                      | MLG1005S10NJT000 | 1005 10±5%       |
|                      | MLG1005S11NJT000 | 1005 11±5%       |
|                      | MLG1005S12NJT000 | 1005 12±5%       |
|                      | MLG1005S13NJT000 | 1005 13±5%       |
|                      | MLG1005S15NJT000 | 1005 15±5%       |
|                      | MLG1005S16NJT000 | 1005 16±5%       |
|                      | MLG1005S18NJT000 | 1005 18±5%       |
|                      | MLG1005S20NJT000 | 1005 20±5%       |
|                      | MLG1005S22NJT000 | 1005 22±5%       |
|                      | MLG1005S24NJT000 | 1005 24±5%       |
|                      | MLG1005S27NJT000 | 1005 27±5%       |
|                      | MLG1005S30NJT000 | 1005 30±5%       |
|                      | MLG1005S33NJT000 | 1005 33±5%       |
|                      | MLG1005S36NJT000 | 1005 36±5%       |
|                      | MLG1005S39NJT000 | 1005 39±5%       |
|                      | MLG1005S43NJT000 | 1005 43±5%       |
|                      | MLG1005S47NJT000 | 1005 47±5%       |
|                      | MLG1005S51NJT000 | 1005 51±5%       |
|                      | MLG1005S56NJT000 | 1005 56±5%       |
|                      | MLG1005S62NJT000 | 1005 62±5%       |
|                      | MLG1005S68NJT000 | 1005 68±5%       |
|                      | MLG1005S75NJT000 | 1005 75±5%       |
|                      | MLG1005S82NJT000 | 1005 82±5%       |
|                      | MLG1005S91NJT000 | 1005 91±5%       |
|                      | MLG1005SR10JT000 | 1005 100±5%      |
|                      | MLG1005SR11JT000 | 1005 110±5%      |
|                      | MLG1005SR12JT000 | 1005 120±5%      |
| MLG1005SR13JT000     | 1005 130±5%      |                  |
| MLG1005SR15JT000     | 1005 150±5%      |                  |
| MLG1005S-3-KIT       | MLG1005SR16JT000 | 1005 160±5%      |
|                      | MLG1005SR18JT000 | 1005 180±5%      |
|                      | MLG1005SR20JT000 | 1005 200±5%      |
|                      | MLG1005SR22JT000 | 1005 220±5%      |
|                      | MLG1005SR24JT000 | 1005 240±5%      |
|                      | MLG1005SR27JT000 | 1005 270±5%      |
|                      | MLG1005SR30JT000 | 1005 300±5%      |
|                      | MLG1005SR33JT000 | 1005 330±5%      |
| MLG1005SR36JT000     | 1005 360±5%      |                  |
| MLG1005SR39JT000     | 1005 390±5%      |                  |