

## Inductors

Jan. 22, 2019  
Simple Model

Commercial Grade for High Frequency Circuits / MLG1005S series (1/5)

### Circuit Diagram



### Circuit Parameters

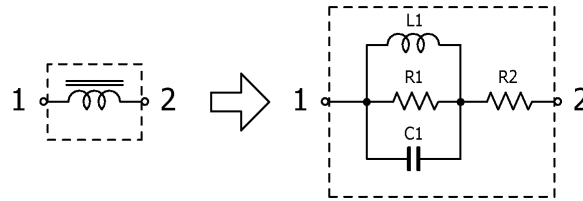
| Part No.         | L1[μH] | R1[ohm] | C1[pF] | R2[ohm] |
|------------------|--------|---------|--------|---------|
| MLG1005S0N3BT000 | 0.0003 | 640     | 0.211  | 0.0100  |
| MLG1005S0N3CT000 | 0.0003 | 640     | 0.211  | 0.0100  |
| MLG1005S0N4BT000 | 0.0004 | 1,100   | 0.158  | 0.0100  |
| MLG1005S0N4CT000 | 0.0004 | 1,100   | 0.158  | 0.0100  |
| MLG1005S0N5BT000 | 0.0005 | 1,400   | 0.127  | 0.0100  |
| MLG1005S0N5CT000 | 0.0005 | 1,400   | 0.127  | 0.0100  |
| MLG1005S0N6BT000 | 0.0006 | 2,200   | 0.106  | 0.0100  |
| MLG1005S0N6CT000 | 0.0006 | 2,200   | 0.106  | 0.0100  |
| MLG1005S0N7BT000 | 0.0007 | 2,600   | 0.103  | 0.0200  |
| MLG1005S0N7CT000 | 0.0007 | 2,600   | 0.103  | 0.0200  |
| MLG1005S0N8BT000 | 0.0008 | 2,400   | 0.118  | 0.0200  |
| MLG1005S0N8CT000 | 0.0008 | 2,400   | 0.118  | 0.0200  |
| MLG1005S0N9BT000 | 0.0009 | 3,700   | 0.090  | 0.0400  |
| MLG1005S0N9CT000 | 0.0009 | 3,700   | 0.090  | 0.0400  |
| MLG1005S1N0BT000 | 0.001  | 2,800   | 0.133  | 0.0400  |
| MLG1005S1N0CT000 | 0.001  | 2,800   | 0.133  | 0.0400  |
| MLG1005S1N0ST000 | 0.001  | 2,800   | 0.133  | 0.0400  |
| MLG1005S1N1BT000 | 0.0011 | 6,400   | 0.062  | 0.0300  |
| MLG1005S1N1CT000 | 0.0011 | 6,400   | 0.062  | 0.0300  |
| MLG1005S1N1ST000 | 0.0011 | 6,400   | 0.062  | 0.0300  |
| MLG1005S1N2BT000 | 0.0012 | 2,700   | 0.157  | 0.0400  |
| MLG1005S1N2CT000 | 0.0012 | 2,700   | 0.157  | 0.0400  |
| MLG1005S1N2ST000 | 0.0012 | 2,700   | 0.157  | 0.0400  |
| MLG1005S1N3BT000 | 0.0013 | 3,200   | 0.142  | 0.0400  |
| MLG1005S1N3CT000 | 0.0013 | 3,200   | 0.142  | 0.0400  |
| MLG1005S1N3ST000 | 0.0013 | 3,200   | 0.142  | 0.0400  |
| MLG1005S1N5BT000 | 0.0015 | 2,800   | 0.183  | 0.0600  |
| MLG1005S1N5CT000 | 0.0015 | 2,800   | 0.183  | 0.0600  |
| MLG1005S1N5ST000 | 0.0015 | 2,800   | 0.183  | 0.0600  |
| MLG1005S1N6BT000 | 0.0016 | 3,100   | 0.179  | 0.0500  |
| MLG1005S1N6CT000 | 0.0016 | 3,100   | 0.179  | 0.0500  |
| MLG1005S1N6ST000 | 0.0016 | 3,100   | 0.179  | 0.0500  |
| MLG1005S1N8BT000 | 0.0018 | 4,300   | 0.133  | 0.0600  |
| MLG1005S1N8CT000 | 0.0018 | 4,300   | 0.133  | 0.0600  |
| MLG1005S1N8ST000 | 0.0018 | 4,300   | 0.133  | 0.0600  |
| MLG1005S2N0BT000 | 0.002  | 4,200   | 0.146  | 0.0700  |

## Inductors

Jan. 22, 2019  
Simple Model

Commercial Grade for High Frequency Circuits / MLG1005S series (2/5)

### Circuit Diagram



### Circuit Parameters

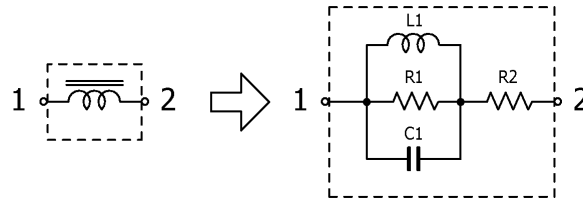
| Part No.         | L1[ $\mu$ H] | R1[ohm] | C1[pF] | R2[ohm] |
|------------------|--------------|---------|--------|---------|
| MLG1005S2N0CT000 | 0.002        | 4,200   | 0.146  | 0.0700  |
| MLG1005S2N0ST000 | 0.002        | 4,200   | 0.146  | 0.0700  |
| MLG1005S2N2BT000 | 0.0022       | 4,400   | 0.156  | 0.0800  |
| MLG1005S2N2CT000 | 0.0022       | 4,400   | 0.156  | 0.0800  |
| MLG1005S2N2ST000 | 0.0022       | 4,400   | 0.156  | 0.0800  |
| MLG1005S2N4BT000 | 0.0024       | 4,600   | 0.157  | 0.0800  |
| MLG1005S2N4CT000 | 0.0024       | 4,600   | 0.157  | 0.0800  |
| MLG1005S2N4ST000 | 0.0024       | 4,600   | 0.157  | 0.0800  |
| MLG1005S2N7BT000 | 0.0027       | 4,600   | 0.176  | 0.0800  |
| MLG1005S2N7CT000 | 0.0027       | 4,600   | 0.176  | 0.0800  |
| MLG1005S2N7ST000 | 0.0027       | 4,600   | 0.176  | 0.0800  |
| MLG1005S3N0BT000 | 0.003        | 5,000   | 0.183  | 0.0900  |
| MLG1005S3N0CT000 | 0.003        | 5,000   | 0.183  | 0.0900  |
| MLG1005S3N0ST000 | 0.003        | 5,000   | 0.183  | 0.0900  |
| MLG1005S3N3BT000 | 0.0033       | 4,700   | 0.206  | 0.0900  |
| MLG1005S3N3CT000 | 0.0033       | 4,700   | 0.206  | 0.0900  |
| MLG1005S3N3ST000 | 0.0033       | 4,700   | 0.206  | 0.0900  |
| MLG1005S3N6BT000 | 0.0036       | 6,100   | 0.157  | 0.0900  |
| MLG1005S3N6CT000 | 0.0036       | 6,100   | 0.157  | 0.0900  |
| MLG1005S3N6ST000 | 0.0036       | 6,100   | 0.157  | 0.0900  |
| MLG1005S3N9BT000 | 0.0039       | 6,800   | 0.154  | 0.1100  |
| MLG1005S3N9CT000 | 0.0039       | 6,800   | 0.154  | 0.1100  |
| MLG1005S3N9ST000 | 0.0039       | 6,800   | 0.154  | 0.1100  |
| MLG1005S4N3CT000 | 0.0043       | 7,100   | 0.164  | 0.1100  |
| MLG1005S4N3ST000 | 0.0043       | 7,100   | 0.164  | 0.1100  |
| MLG1005S4N7CT000 | 0.0047       | 6,700   | 0.185  | 0.1200  |
| MLG1005S4N7ST000 | 0.0047       | 6,700   | 0.185  | 0.1200  |
| MLG1005S5N1CT000 | 0.0051       | 6,400   | 0.199  | 0.1300  |
| MLG1005S5N1ST000 | 0.0051       | 6,400   | 0.199  | 0.1300  |
| MLG1005S5N6CT000 | 0.0056       | 8,100   | 0.161  | 0.1400  |
| MLG1005S5N6ST000 | 0.0056       | 8,100   | 0.161  | 0.1400  |
| MLG1005S6N2HT000 | 0.0062       | 7,900   | 0.185  | 0.1600  |
| MLG1005S6N2ST000 | 0.0062       | 7,900   | 0.185  | 0.1600  |
| MLG1005S6N8HT000 | 0.0068       | 7,800   | 0.192  | 0.1500  |
| MLG1005S6N8JT000 | 0.0068       | 7,800   | 0.192  | 0.1500  |
| MLG1005S7N5HT000 | 0.0075       | 8,300   | 0.201  | 0.1500  |

## Inductors

Jan. 22, 2019  
Simple Model

Commercial Grade for High Frequency Circuits / MLG1005S series (3/5)

### Circuit Diagram



### Circuit Parameters

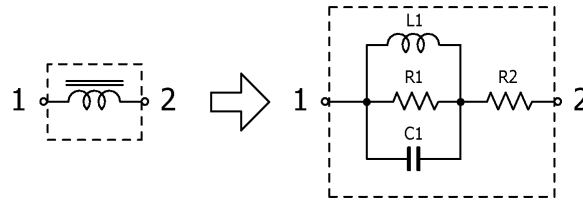
| Part No.         | L1[ $\mu$ H] | R1[ohm] | C1[pF] | R2[ohm] |
|------------------|--------------|---------|--------|---------|
| MLG1005S7N5JT000 | 0.0075       | 8,300   | 0.201  | 0.1500  |
| MLG1005S8N2HT000 | 0.0082       | 8,600   | 0.193  | 0.1900  |
| MLG1005S8N2JT000 | 0.0082       | 8,600   | 0.193  | 0.1900  |
| MLG1005S9N1HT000 | 0.0091       | 9,700   | 0.193  | 0.2000  |
| MLG1005S9N1JT000 | 0.0091       | 9,700   | 0.193  | 0.2000  |
| MLG1005S10NHT000 | 0.01         | 9,000   | 0.219  | 0.2200  |
| MLG1005S10NJT000 | 0.01         | 9,000   | 0.219  | 0.2200  |
| MLG1005S11NHT000 | 0.011        | 9,900   | 0.190  | 0.2830  |
| MLG1005S11NJT000 | 0.011        | 9,900   | 0.190  | 0.2830  |
| MLG1005S12NHT000 | 0.012        | 9,200   | 0.235  | 0.2500  |
| MLG1005S12NJT000 | 0.012        | 9,200   | 0.235  | 0.2500  |
| MLG1005S13NHT000 | 0.013        | 8,100   | 0.228  | 0.2610  |
| MLG1005S13NJT000 | 0.013        | 8,100   | 0.228  | 0.2610  |
| MLG1005S15NHT000 | 0.015        | 10,000  | 0.215  | 0.3500  |
| MLG1005S15NJT000 | 0.015        | 10,000  | 0.215  | 0.3500  |
| MLG1005S16NHT000 | 0.016        | 10,000  | 0.214  | 0.3230  |
| MLG1005S16NJT000 | 0.016        | 10,000  | 0.214  | 0.3230  |
| MLG1005S18NHT000 | 0.018        | 11,000  | 0.225  | 0.4000  |
| MLG1005S18NJT000 | 0.018        | 11,000  | 0.225  | 0.4000  |
| MLG1005S20NHT000 | 0.02         | 11,000  | 0.220  | 0.3790  |
| MLG1005S20NJT000 | 0.02         | 11,000  | 0.220  | 0.3790  |
| MLG1005S22NHT000 | 0.022        | 10,000  | 0.238  | 0.4600  |
| MLG1005S22NJT000 | 0.022        | 10,000  | 0.238  | 0.4600  |
| MLG1005S24NHT000 | 0.024        | 12,000  | 0.217  | 0.4260  |
| MLG1005S24NJT000 | 0.024        | 12,000  | 0.217  | 0.4260  |
| MLG1005S27NHT000 | 0.027        | 11,000  | 0.235  | 0.5300  |
| MLG1005S27NJT000 | 0.027        | 11,000  | 0.235  | 0.5300  |
| MLG1005S30NHT000 | 0.03         | 10,000  | 0.240  | 0.4970  |
| MLG1005S30NJT000 | 0.03         | 10,000  | 0.240  | 0.4970  |
| MLG1005S33NHT000 | 0.033        | 11,000  | 0.237  | 0.5900  |
| MLG1005S33NJT000 | 0.033        | 11,000  | 0.237  | 0.5900  |
| MLG1005S36NHT000 | 0.036        | 13,000  | 0.231  | 0.6220  |
| MLG1005S36NJT000 | 0.036        | 13,000  | 0.231  | 0.6220  |
| MLG1005S39NHT000 | 0.039        | 11,000  | 0.254  | 0.6500  |
| MLG1005S39NJT000 | 0.039        | 11,000  | 0.254  | 0.6500  |
| MLG1005S43NHT000 | 0.043        | 13,000  | 0.240  | 0.6680  |

## Inductors

Jan. 22, 2019  
Simple Model

Commercial Grade for High Frequency Circuits / MLG1005S series (4/5)

### Circuit Diagram



### Circuit Parameters

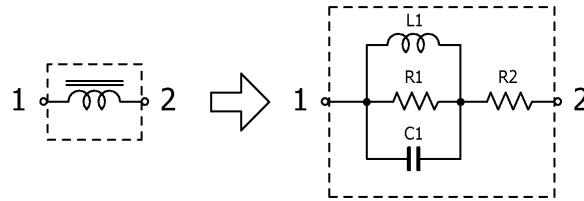
| Part No.         | L1[ $\mu$ H] | R1[ohm] | C1[pF] | R2[ohm] |
|------------------|--------------|---------|--------|---------|
| MLG1005S43NJT000 | 0.043        | 13,000  | 0.240  | 0.6680  |
| MLG1005S47NHT000 | 0.047        | 12,000  | 0.275  | 0.7500  |
| MLG1005S47NJT000 | 0.047        | 12,000  | 0.275  | 0.7500  |
| MLG1005S51NHT000 | 0.051        | 13,000  | 0.233  | 0.7160  |
| MLG1005S51NJT000 | 0.051        | 13,000  | 0.233  | 0.7160  |
| MLG1005S56NHT000 | 0.056        | 11,000  | 0.268  | 0.8300  |
| MLG1005S56NJT000 | 0.056        | 11,000  | 0.268  | 0.8300  |
| MLG1005S62NHT000 | 0.062        | 13,000  | 0.247  | 0.8470  |
| MLG1005S62NJT000 | 0.062        | 13,000  | 0.247  | 0.8470  |
| MLG1005S68NHT000 | 0.068        | 11,000  | 0.308  | 0.8700  |
| MLG1005S68NJT000 | 0.068        | 11,000  | 0.308  | 0.8700  |
| MLG1005S75NHT000 | 0.075        | 12,000  | 0.292  | 0.9320  |
| MLG1005S75NJT000 | 0.075        | 12,000  | 0.292  | 0.9320  |
| MLG1005S82NHT000 | 0.082        | 12,000  | 0.309  | 1.0100  |
| MLG1005S82NJT000 | 0.082        | 12,000  | 0.309  | 1.0100  |
| MLG1005S91NHT000 | 0.091        | 12,000  | 0.325  | 1.1390  |
| MLG1005S91NJT000 | 0.091        | 12,000  | 0.325  | 1.1390  |
| MLG1005SR10HT000 | 0.1          | 13,000  | 0.313  | 1.3700  |
| MLG1005SR10JT000 | 0.1          | 13,000  | 0.313  | 1.3700  |
| MLG1005SR11HT000 | 0.11         | 15,000  | 0.269  | 1.4820  |
| MLG1005SR11JT000 | 0.11         | 15,000  | 0.269  | 1.4820  |
| MLG1005SR12HT000 | 0.12         | 13,000  | 0.330  | 1.4800  |
| MLG1005SR12JT000 | 0.12         | 13,000  | 0.330  | 1.4800  |
| MLG1005SR13HT000 | 0.13         | 13,000  | 0.334  | 1.6820  |
| MLG1005SR13JT000 | 0.13         | 13,000  | 0.334  | 1.6820  |
| MLG1005SR15HT000 | 0.15         | 15,000  | 0.345  | 2.4400  |
| MLG1005SR15JT000 | 0.15         | 15,000  | 0.345  | 2.4400  |
| MLG1005SR16HT000 | 0.16         | 13,000  | 0.413  | 2.7440  |
| MLG1005SR16JT000 | 0.16         | 13,000  | 0.413  | 2.7440  |
| MLG1005SR18HT000 | 0.18         | 14,000  | 0.391  | 2.8800  |
| MLG1005SR18JT000 | 0.18         | 14,000  | 0.391  | 2.8800  |
| MLG1005SR20HT000 | 0.2          | 13,000  | 0.463  | 3.1520  |
| MLG1005SR20JT000 | 0.2          | 13,000  | 0.463  | 3.1520  |
| MLG1005SR22HT000 | 0.22         | 12,000  | 0.461  | 3.0200  |
| MLG1005SR22JT000 | 0.22         | 12,000  | 0.461  | 3.0200  |
| MLG1005SR24HT000 | 0.24         | 14,000  | 0.451  | 3.4160  |

## Inductors

Jan. 22, 2019  
Simple Model

Commercial Grade for High Frequency Circuits / MLG1005S series (5/5)

### Circuit Diagram



### Circuit Parameters

| Part No.         | L1[ $\mu$ H] | R1[ohm] | C1[pF] | R2[ohm] |
|------------------|--------------|---------|--------|---------|
| MLG1005SR24JT000 | 0.24         | 14,000  | 0.451  | 3.4160  |
| MLG1005SR27HT000 | 0.27         | 15,000  | 0.375  | 3.5400  |
| MLG1005SR27JT000 | 0.27         | 15,000  | 0.375  | 3.5400  |
| MLG1005SR30HT000 | 0.3          | 15,000  | 0.442  | 4.8180  |
| MLG1005SR30JT000 | 0.3          | 15,000  | 0.442  | 4.8180  |
| MLG1005SR33HT000 | 0.33         | 14,000  | 0.480  | 5.2100  |
| MLG1005SR33JT000 | 0.33         | 14,000  | 0.480  | 5.2100  |
| MLG1005SR36HT000 | 0.36         | 16,000  | 0.440  | 5.3870  |
| MLG1005SR36JT000 | 0.36         | 16,000  | 0.440  | 5.3870  |
| MLG1005SR39HT000 | 0.39         | 17,000  | 0.406  | 5.9700  |
| MLG1005SR39JT000 | 0.39         | 17,000  | 0.406  | 5.9700  |