



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°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
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%	