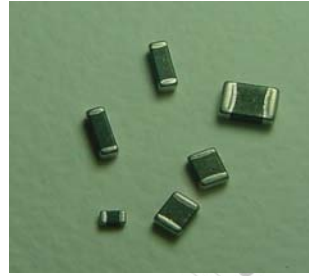


# Multilayer Chip Inductors

## Features

- Monolithic structure for high reliability.
- No cross coupling between inductors due to magnetic shield.
- Ideal for high density installation.
- Dimension are unified for automatic mounting
- Excellent solderability and high heat resistance for either flow or reflow soldering
- Closed magnetic circuit avoids crosstalk and is suitable for Density printed circuit boards.



## Applications

- Personal or notebook computers and peripheral equipment ( CD-ROM, Hard Disk, Modem, Printer).
- Other various electronic appliances.

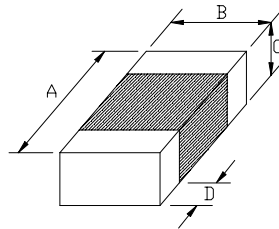
## Part Number Systems

**MI - 201212 - 2R7 - K - LF**

(1) (2) (3) (4) (5)

(1)	Product series	(2)	Size
(3)	Inductance Value: 2R7 = 2.7uH	(4)	Inductance Tolerance:
(5)	ROHs Compliant	J = ± 5%, K = ± 10%, M = ± 20%,	

## Shape And Dimensions



Unit: mm

Type	A	B	C	D
201212	2.0 ± 0.2	1.2 ± 0.2	1.25±0.2	0.2 ~ 0.8

## Multilayer Chip Inductors

MI-201212 (0805)-Series				ELECTRICAL CHARACTERISTICS			
Part Number	Inductance ( $\mu$ H)	Tolerance	Q Min	L/Q Test Freq.(MHz)	SRF (MHz) Min	Rdc ( $\Omega$ ) Max	Idc (mA) Max
MI-201212-2R7M-LF	2.7	K, M	45	10	45	0.75	30
MI-201212-3R3M-LF	3.3	K, M	45	10	41	0.80	30
MI-201212-3R9M-LF	3.9	K, M	45	10	38	0.90	30
MI-201212-4R7M-LF	4.7	K, M	45	10	35	1.00	30
MI-201212-5R6M-LF	5.6	K, M	50	4	32	0.90	15
MI-201212-6R8M-LF	6.8	K, M	50	4	29	1.00	15
MI-201212-8R2M-LF	8.2	K, M	50	4	26	1.10	15
MI-201212-100M-LF	10	K, M	50	2	24	1.15	15
MI-201212-120M-LF	12	K, M	50	2	22	1.25	15
MI-201212-150M-LF	15	K, M	30	1	19	0.8	5
MI-201212-180M-LF	18	K, M	30	1	18	0.9	5
MI-201212-220M-LF	22	K, M	30	1	16	1.10	5
MI-201212-270M-LF	27	K, M	30	1	14	1.15	5
MI-201212-330M-LF	33	K, M	30	0.4	13	1.25	5
MI-201212-390M-LF	39	K, M	35	2	8	2.90	4

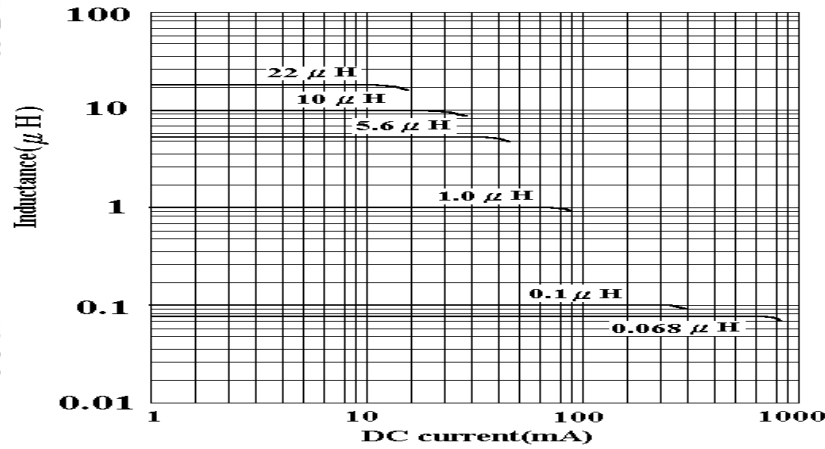
\* All specifications are subjected to change without prior notice.

# Multilayer Chip Inductors

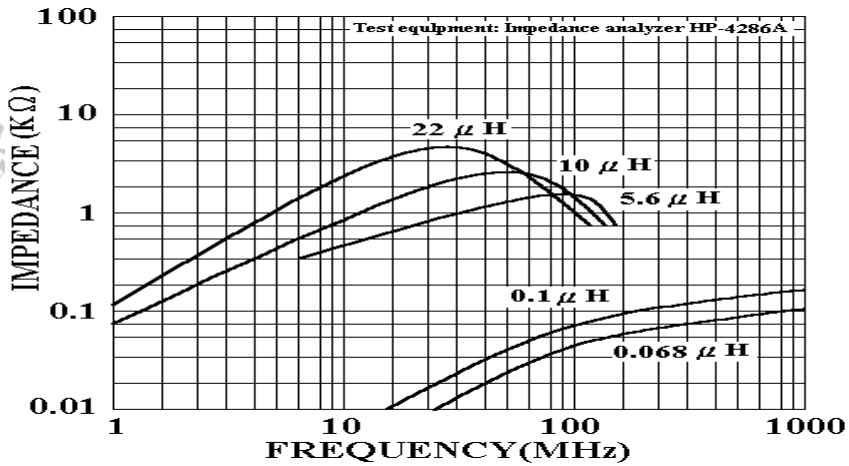
## Typical Electrical Characteristics

❖ MI-201212 (0805)-Series

Inductance Vs. DC Superposition



Impedance Vs. Frequency Characteristics



Q Vs. Frequency Characteristics

