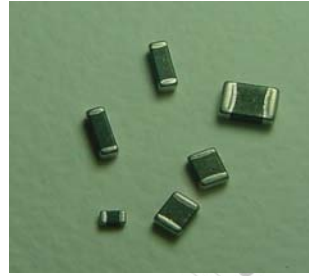


Multilayer Chip Inductors

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.

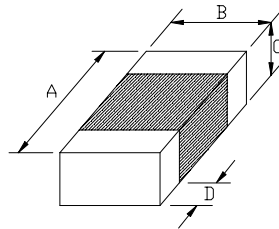
Part Number Systems

MI - 453215 - 47N - K - LF

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

(1)	Product series	(2)	Size
(3)	Inductance Value: 47N = 0.047uH	(4)	Inductance Tolerance:
(5)	ROHs Compliant		J = ± 5%, K = ± 10%, M = ± 20%,

Shape And Dimensions



Unit: mm

Type	A	B	C	D
453215	4.5 ± 0.2	3.2 ± 0.2	1.5 ± 0.3	0.6 ~ 1.0

Multilayer Chip Inductors

MI-453215 (1812)-Series				ELECTRICAL CHARACTERISTICS			
Part Number	Inductance (μ H)	Tolerance	Q Min	L/Q Test Freq.(MHz)	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA) Max
MI-453215-1R0M-LF	1.0	K, M	35	10	75	0.40	100
MI-453215-1R2M-LF	1.2	K, M	35	10	65	0.50	100
MI-453215-1R5M-LF	1.5	K, M	35	10	60	0.50	50
MI-453215-1R8M-LF	1.8	K, M	35	10	55	0.50	50
MI-453215-2R2M-LF	2.2	K, M	35	10	50	0.60	50
MI-453215-2R7M-LF	2.7	K, M	35	10	45	0.60	50
MI-453215-3R3M-LF	3.3	K, M	35	10	41	0.70	50
MI-453215-3R9M-LF	3.9	K, M	35	10	38	0.80	50
MI-453215-4R7M-LF	4.7	K, M	35	10	35	0.90	50
MI-453215-5R6M-LF	5.6	K, M	40	4	32	0.70	25
MI-453215-6R8M-LF	6.8	K, M	40	4	29	0.80	25
MI-453215-8R2M-LF	8.2	K, M	40	4	26	0.90	25
MI-453215-100M-LF	10	K, M	40	2	24	1.00	25
MI-453215-120M-LF	12	K, M	40	2	22	1.10	15
MI-453215-150M-LF	15	K, M	35	1	19	0.70	5
MI-453215-180M-LF	18	K, M	35	1	18	0.70	5
MI-453215-220M-LF	22	K, M	35	1	16	0.90	5
MI-453215-270M-LF	27	K, M	35	1	14	0.90	5
MI-453215-330M-LF	33	K, M	35	0.4	13	1.05	5
MI-453215-390M-LF	39	K, M	40	2	11	3.00	10
MI-453215-470M-LF	47	K, M	40	2	10	3.40	10
MI-453215-560M-LF	56	K, M	40	2	9.5	3.80	5
MI-453215-680M-LF	68	K, M	40	1	9.5	3.00	5
MI-453215-820M-LF	82	K, M	40	1	9.0	3.40	5
MI-453215-101M-LF	100	K, M	40	1	8.0	3.80	5
MI-453215-121M-LF	120	K, M	30	0.4	6.0	3.00	3

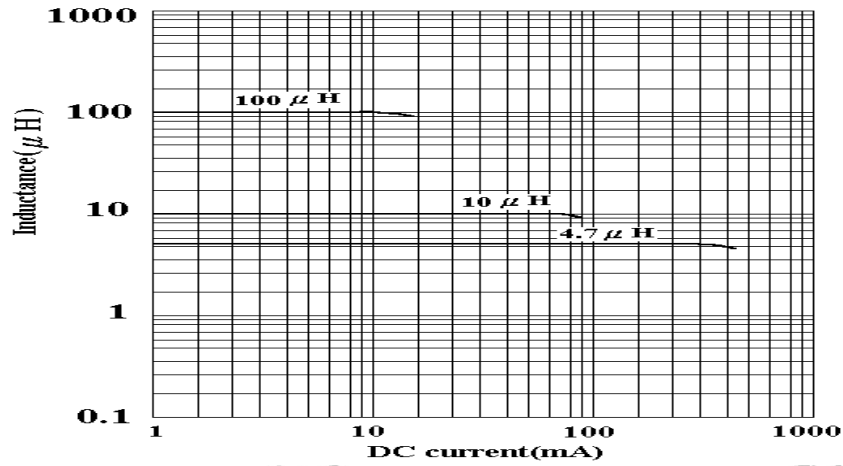
* All specifications are subjected to change without prior notice.

Multilayer Chip Inductors

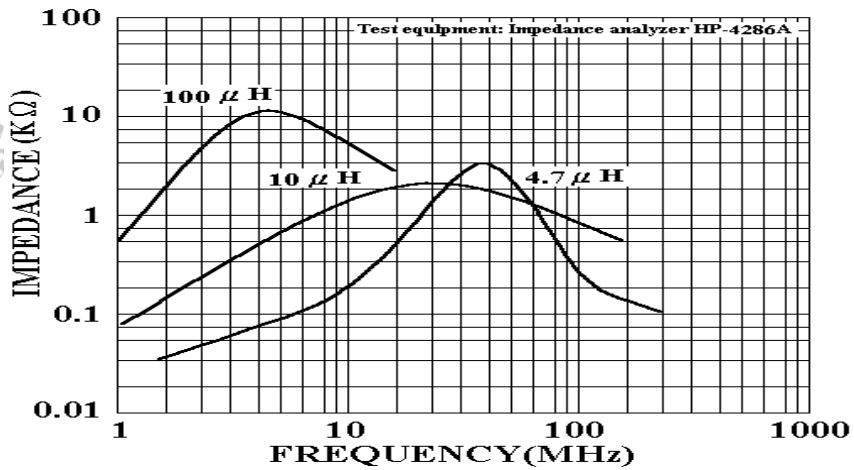
Typical Electrical Characteristics

- ❖ MI-453215 (1812)-Series

Inductance Vs. DC Superposition



Impedance Vs. Frequency Characteristics



Q Vs. Frequency Characteristics

