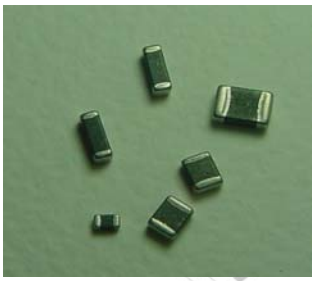
Multilayer Chip Inductors

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.

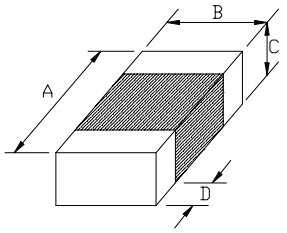
Part Number Systems

MI - 201209 – 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
201209	**2.0 ± 0.2**	**1.2 ± 0.2**	**0.9 ± 0.2**	**0.2 ~ 0.8**

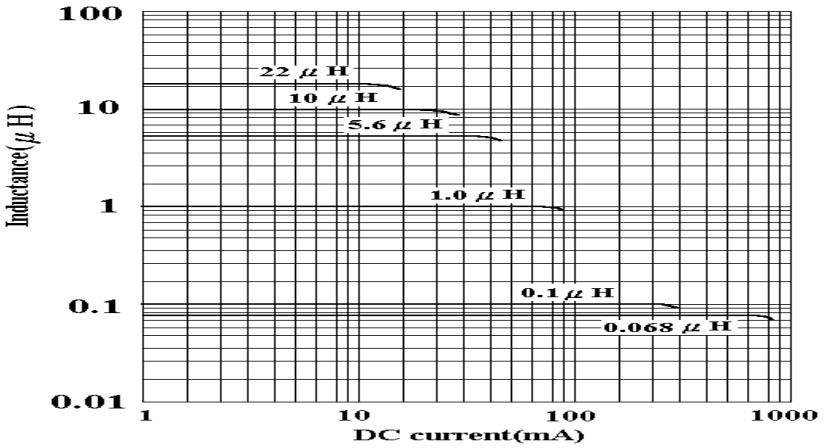
MI-201209 (0805)-Series				ELECTRICAL CHARACTERISTICS			
Part Number	Inductance (uH)	Tolerance	Q Min	L/Q Test Freq.(MHz)	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA) Max
MI-201209-47NM-LF	0.047	M	15	50	320	0.20	300
MI-201209-68NM-LF	0.068	M	15	50	280	0.20	300
MI-201209-82NM-LF	0.082	M	15	50	255	0.20	300
MI-201209-R10M-LF	0.10	K, M	20	25	235	0.30	250
MI-201209-R12M-LF	0.12	K, M	20	25	220	0.30	250
MI-201209-R15M-LF	0.15	K, M	20	25	200	0.40	250
MI-201209-R18M-LF	0.18	K, M	20	25	185	0.40	250
MI-201209-R22M-LF	0.22	K, M	20	25	170	0.50	250
MI-201209-R27M-LF	0.27	K, M	20	25	150	0.50	250
MI-201209-R33M-LF	0.33	K, M	20	25	145	0.55	250
MI-201209-R39M-LF	0.39	K, M	25	25	135	0.65	200
MI-201209-R47M-LF	0.47	K, M	25	25	125	0.65	200
MI-201209-R56M-LF	0.56	K, M	25	25	115	0.75	150
MI-201209-R68M-LF	0.68	K, M	25	25	105	0.80	150
MI-201209-R82M-LF	0.82	K, M	25	25	100	1.00	150
MI-201209-1R0M-LF	1.0	K, M	45	10	75	0.40	50
MI-201209-1R2M-LF	1.2	K, M	45	10	65	0.50	50
MI-201209-1R5M-LF	1.5	K, M	45	10	60	0.50	50
MI-201209-1R8M-LF	1.8	K, M	45	10	55	0.60	50
MI-201209-2R2M-LF	2.2	K, M	45	10	50	0.65	30

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

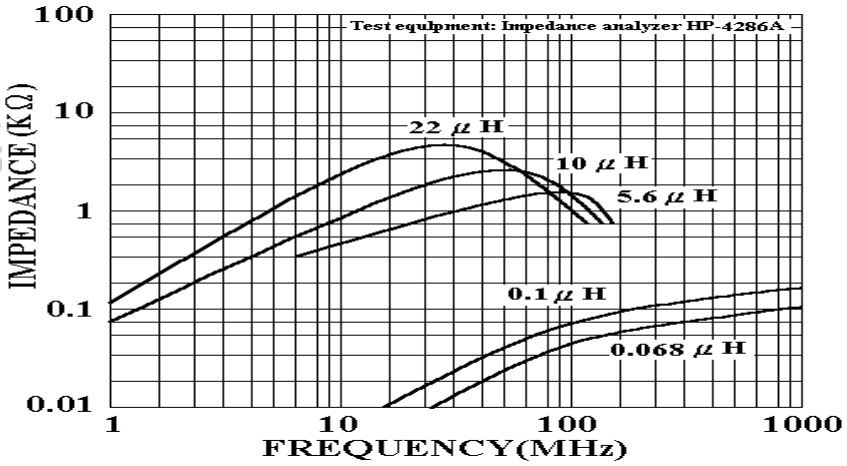
Typical Electrical Characteristics

❖ MI-201209 (0805)-Series

Inductance Vs. DC Superposition



Impedance Vs. Frequency Characteristics



Q Vs. Frequency Characteristics