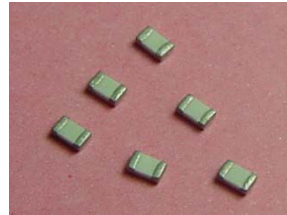


Multilayer High Frequency Ceramic Inductors

Features

- Monolithic structure ensuring high performance and reliability.
- High frequency application up to 6 GHz.
- Excellent Q and SRF characteristic



Applications

- RF modules for telecommunication systems including
- GSM, PCS, DECT, WLAN and Bluetooth, etc.

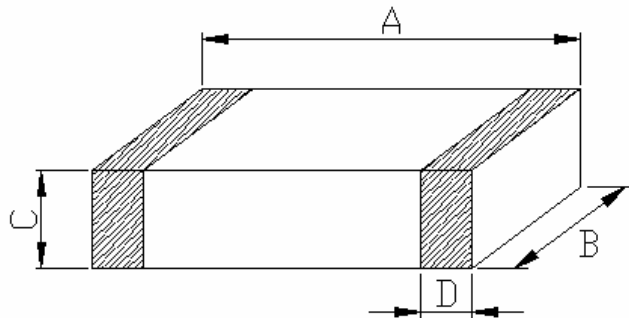
Part Number Systems

MHI - 100505 – 1N5 – K - LF

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

(1)	Product series	(2)	Size
(3)	Inductance Value: 1N5 = 1.5nH	(4)	Inductance Tolerance: S = ± 0.3, J = ± 5%, K = ± 10%
(5)	ROHs Compliant		

Shape And Dimensions



Unit: mm

Type	A	B	C	D
100505	1.0 ± 0.10	0.5 ± 0.10	0.5 ± 0.10	0.23 ± 0.08

Multilayer High Frequency Ceramic Inductors

MHI-100505 (0402)-Series				ELECTRICAL CHARACTERISTICS			
Part Number	Inductance (nH)	Tolerance	Q Min	L/Q Freq.(MHz)	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA) Max
MHI-100505-1N0S-LF	1.0	S	8	100	> 15000	0.12	300
MHI-100505-1N2S-LF	1.2	S	8	100	> 15000	0.12	300
MHI-100505-1N5S-LF	1.5	S	8	100	> 15000	0.13	300
MHI-100505-1N8S-LF	1.8	S	8	100	14000	0.14	300
MHI-100505-2N2S-LF	2.2	S	8	100	12000	0.16	300
MHI-100505-2N7S-LF	2.7	S	8	100	9500	0.17	300
MHI-100505-3N3K-LF	3.3	S, K	8	100	8500	0.19	300
MHI-100505-3N9K-LF	3.9	S, K	8	100	7000	0.22	300
MHI-100505-4N7K-LF	4.7	S, K	8	100	6000	0.24	300
MHI-100505-5N6K-LF	5.6	S, K	8	100	5400	0.27	300
MHI-100505-6N8K-LF	6.8	J, K	8	100	5000	0.32	250
MHI-100505-8N2K-LF	8.2	J, K	8	100	4600	0.40	250
MHI-100505-10NK-LF	10	J, K	8	100	3700	0.45	250
MHI-100505-12NK-LF	12	J, K	8	100	3200	0.50	250
MHI-100505-15NK-LF	15	J, K	8	100	3100	0.60	250
MHI-100505-18NK-LF	18	J, K	8	100	2900	0.65	200
MHI-100505-22NK-LF	22	J, K	8	100	2100	0.80	200
MHI-100505-27NK-LF	27	J, K	8	100	1900	0.90	200
MHI-100505-33NK-LF	33	J, K	8	100	1600	1.00	200
MHI-100505-39NK-LF	39	J, K	8	100	1400	1.20	150
MHI-100505-47NK-LF	47	J, K	8	100	1200	1.30	150

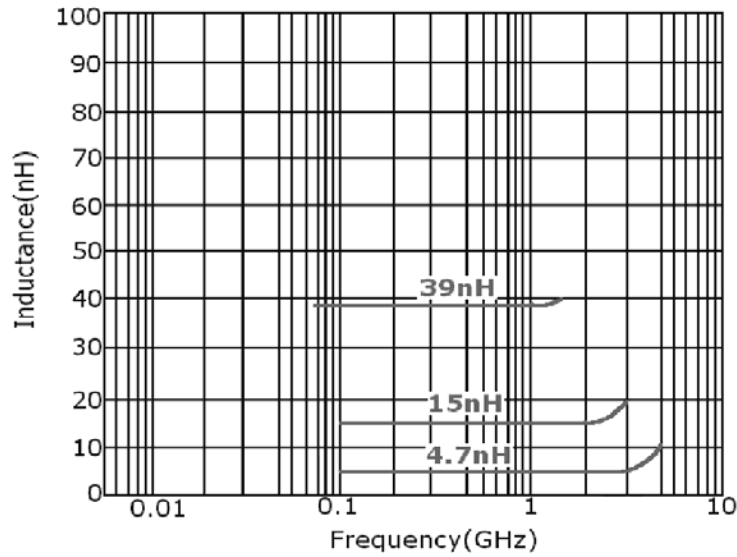
* All specifications are subjected to change without prior notice.

Multilayer High Frequency Ceramic Inductors

Typical Electrical Characteristics

❖ MHI-100505 (0402)-Series

Inductance Vs. Frequency Characteristics



Q Vs. Frequency Characteristics

