



## ML3216 SERIES – Multilayer Chip Inductors



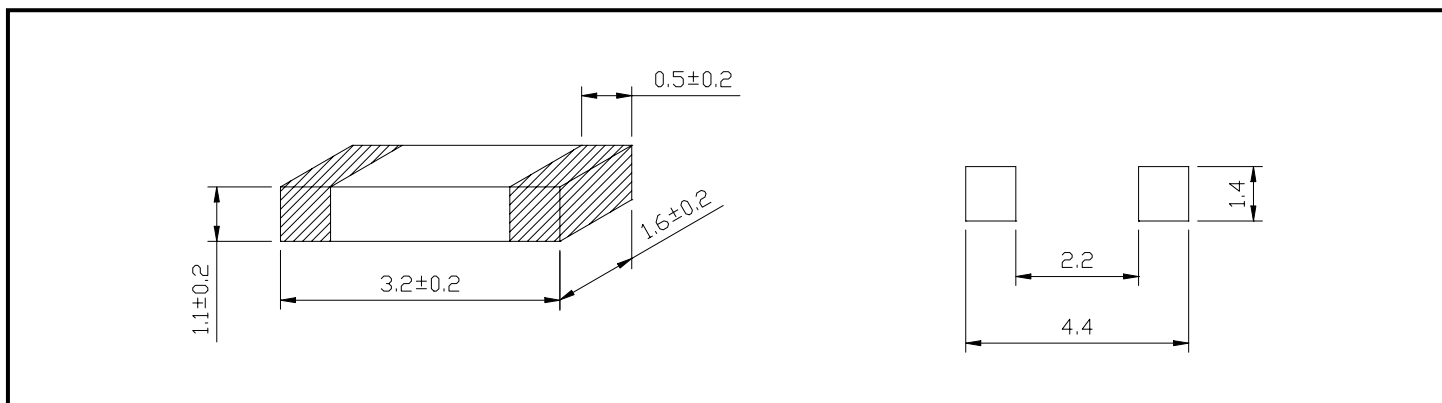
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### PART NUMBERING SYSTEM

<b>ML</b>	<b>3 2 1 6</b>	—	<b>1 0 0 K</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

UNIT : mm



### FEATURES

- Monolithic structure for high reliability .
- No cross coupling between inductors due to magnetic shielded . Ideal for high density installation .
- Dimensions are unified for automatic mounting .
- Excellent solder ability and high heat resistance for either flow or reflow soldering .
- Closed magnetic circuit avoids crosstalk and is suitable for high density printed circuit boards .
- Application for Personal or Notebook computers and peripheral equipment ( CD-ROM , Hard Disk ...)



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**SPECIFICATION TABLE**

PART NUMBER	INDUCTANCE ( $\mu$ H)	Q. MIN.	L, Q TEST FREQUENCY (MHz)	SRF (MHz) MIN.	DCR ( $\Omega$ ) (max)	IDC(mA) (max)
ML3216-47NM-LF	0.047 $\pm$ 20%	20	50	320	0.15	300
ML3216-68NM-LF	0.068 $\pm$ 20%	20	50	280	0.25	300
ML3216-82NM-LF	0.082 $\pm$ 20%	20	50	255	0.25	300
ML3216-R10K-LF	0.10 $\pm$ 10%	20	25	235	0.25	250
ML3216-R12K-LF	0.12 $\pm$ 10%	20	25	220	0.30	250
ML3216-R15K-LF	0.15 $\pm$ 10%	20	25	200	0.30	250
ML3216-R18K-LF	0.18 $\pm$ 10%	20	25	185	0.40	250
ML3216-R22K-LF	0.22 $\pm$ 10%	20	25	170	0.40	250
ML3216-R27K-LF	0.27 $\pm$ 10%	20	25	150	0.50	250
ML3216-R33K-LF	0.33 $\pm$ 10%	20	25	145	0.60	250
ML3216-R39K-LF	0.39 $\pm$ 10%	25	25	135	0.50	200
ML3216-R47K-LF	0.47 $\pm$ 10%	25	25	125	0.60	200
ML3216-R56K-LF	0.56 $\pm$ 10%	25	25	115	0.70	150
ML3216-R68K-LF	0.68 $\pm$ 10%	25	25	105	0.80	150
ML3216-R82K-LF	0.82 $\pm$ 10%	25	25	100	0.90	150
ML3216-1R0K-LF	1.0 $\pm$ 10%	45	10	75	0.40	100
ML3216-1R2K-LF	1.2 $\pm$ 10%	45	10	65	0.50	100
ML3216-1R5K-LF	1.5 $\pm$ 10%	45	10	60	0.50	50
ML3216-1R8K-LF	1.8 $\pm$ 10%	45	10	55	0.50	50
ML3216-2R2K-LF	2.2 $\pm$ 10%	45	10	50	0.60	50
ML3216-2R7K-LF	2.7 $\pm$ 10%	45	10	45	0.60	50
ML3216-3R3K-LF	3.3 $\pm$ 10%	45	10	41	0.70	50
ML3216-3R9K-LF	3.9 $\pm$ 10%	45	10	38	0.80	50
ML3216-4R7K-LF	4.7 $\pm$ 10%	45	10	35	0.90	50
ML3216-5R6K-LF	5.6 $\pm$ 10%	50	4	32	0.70	25
ML3216-6R8K-LF	6.8 $\pm$ 10%	50	4	29	0.80	25
ML3216-8R2K-LF	8.2 $\pm$ 10%	50	4	26	0.90	25
ML3216-100K-LF	10 $\pm$ 10%	50	2	24	1.00	25
ML3216-120K-LF	12 $\pm$ 10%	50	2	22	1.05	15
ML3216-150K-LF	15 $\pm$ 10%	35	1	19	0.70	5
ML3216-180K-LF	18 $\pm$ 10%	35	1	18	0.70	5
ML3216-220K-LF	22 $\pm$ 10%	35	1	16	0.90	5
ML3216-270K-LF	27 $\pm$ 10%	35	1	14	0.90	5
ML3216-330K-LF	33 $\pm$ 10%	35	0.4	13	1.05	5
ML3216-390K-LF	39 $\pm$ 10%	40	2	11	3.00	10
ML3216-470K-LF	47 $\pm$ 10%	40	2	10	3.40	10

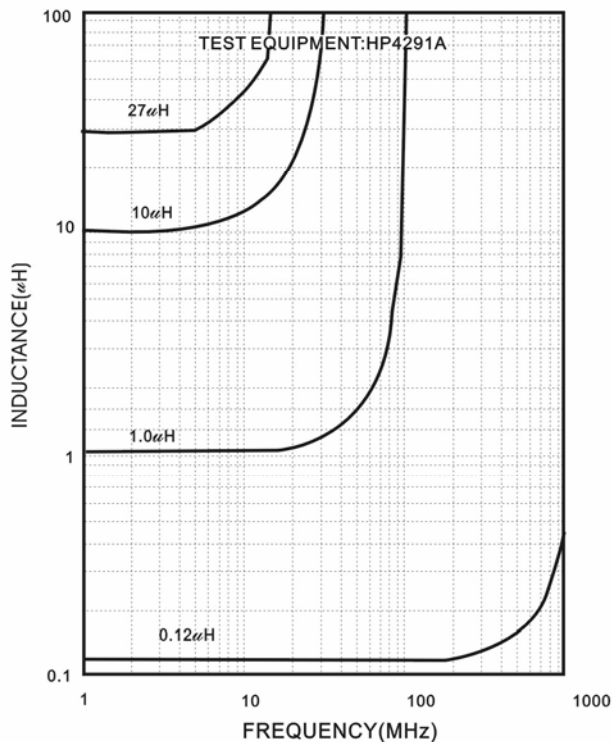


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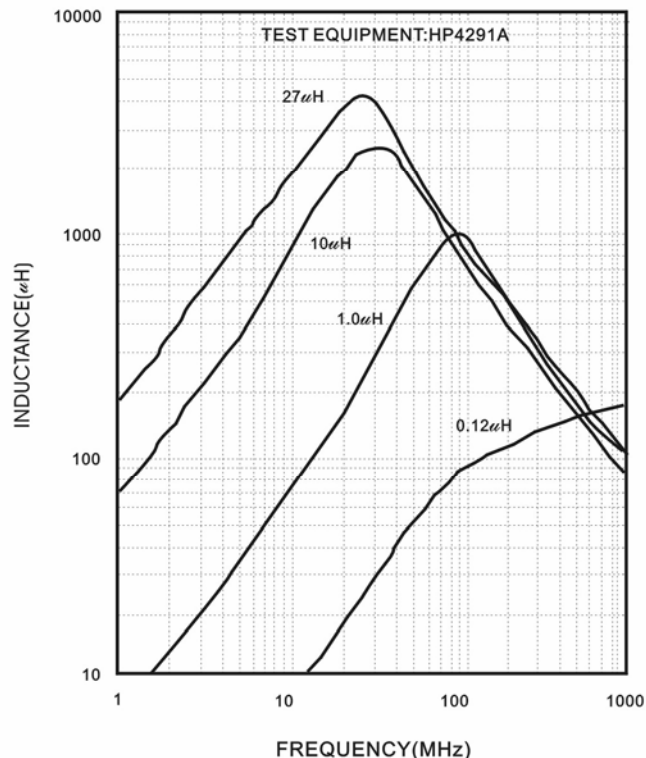


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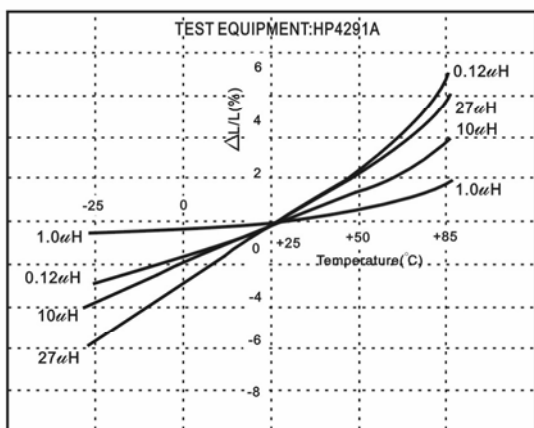
INDUCANCE vs. FREQUENCY  
CHARACTERSTICS



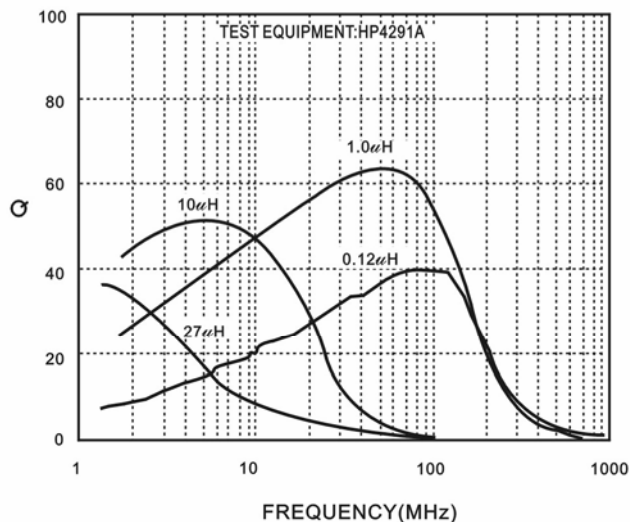
INDUCANCE vs. FREQUENCY  
CHARACTERSTICS



INDUCANCE vs. FREQUENCY  
CHARACTERSTICS



Q vs. FREQUENCY CHARACTERISTICS



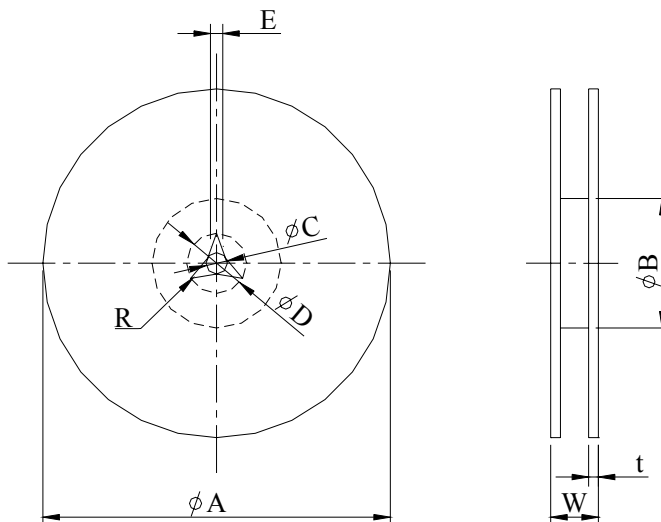


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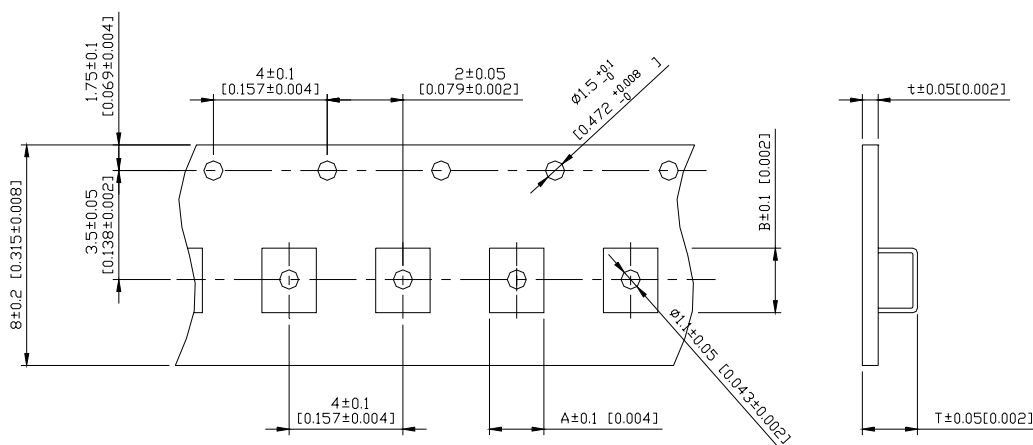


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## PACKAGING SPECIFICATION



	A	B	C	D	E	W8	W12	t	R
T( $\phi 178\text{mm}$ ) Reel	$\phi 178\pm 2$	$\phi 60\pm 1$	$\phi 13\pm 0.8$	$\phi 21\pm 0.8$	2	$10\pm 1.5$	$14.5\pm 1.5$	$1.27\pm 0.2$	1
T( $\phi 330\text{mm}$ ) Reel	$\phi 330\pm 2$	$\phi 100\pm 2$	$\phi 13\pm 0.8$	$\phi 21\pm 0.8$	2	$10\pm 1.5$	$14.5\pm 1.5$	$1.27\pm 0.2$	1



TYPE	A	B	T	t	T( $\phi 178\text{mm}$ )	T( $\phi 330\text{mm}$ )
ML3216	1.90	3.50	1.40	0.2	3000 pcs/reel	-