

### ML3216 Series

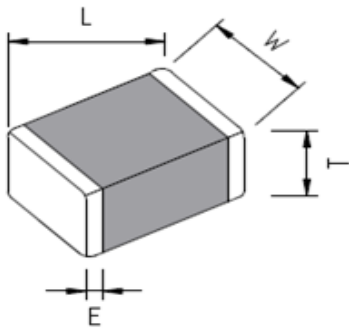
#### Features :

- Produced from magnetic material and with multilayer technology, not containing any wire windings.
- Dimensions are unified for automatic mounting.
- No cross coupling between inductors due to magnetic shield and is suitable for high density printed circuit boards.
- Monolithic structure for high reliability.
- Excellent solderability and high heat resistance for either flow or reflow soldering.
- Operating temperature range of -40°C to +85°C
- Storage temperature range of -10°C to +40°C

#### Applications :

- Circuit where a stable ground is unavailable.
- Various automotive electronics.
- Mother board, tablet PC, laptop, desktop computer and peripheral equipment.
- Digital communication equipment.
- Various electronic equipment.

#### Shapes And Dimensions : (Unit :mm)



L	W	T	E
3.2 ± 0.15	1.6 ± 0.15	*	0.4~1.0

\*Please refer to the detailed figures shown in the ML3216 series table.

#### Part Number Code :

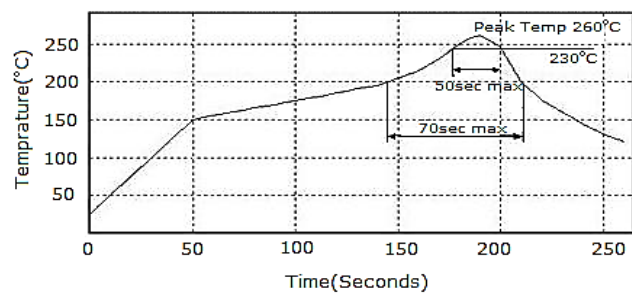
**ML 3216 1N5 K -E**

①      ②      ③      ④      ⑤

- 1 : Product Series
- 2 : Dimensions L x W
- 3 : Inductance Value
- 4 : Inductance Tolerance
- 5 : Lead-Free

#### Reflow Profile :

Peak Temp : 260°C  
Max time above 230°C 50sec  
Max time above 200°C 70sec



### ML3216 Series

Part No.	Inductance ( $\mu$ H)	Tolerance	Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR ( $\Omega$ ) Max.	Rated Current (mA) Max.	Thickness (mm)
ML3216-47N	0.047	M	20	50	320	0.15	300	1.1 $\pm$ 0.3
ML3216-68N	0.068	M	20	50	280	0.25	300	1.1 $\pm$ 0.3
ML3216-82N	0.082	M	20	50	255	0.25	300	1.1 $\pm$ 0.3
ML3216-R10	0.100	M / K	20	25	235	0.25	250	1.1 $\pm$ 0.3
ML3216-R12	0.120	M / K	20	25	220	0.30	250	1.1 $\pm$ 0.3
ML3216-R15	0.150	M / K	20	25	200	0.30	250	1.1 $\pm$ 0.3
ML3216-R18	0.180	M / K	20	25	185	0.40	250	1.1 $\pm$ 0.3
ML3216-R22	0.220	M / K	20	25	170	0.40	250	1.1 $\pm$ 0.3
ML3216-R27	0.270	M / K	20	25	150	0.50	250	1.1 $\pm$ 0.3
ML3216-R33	0.330	M / K	20	25	145	0.60	250	1.1 $\pm$ 0.3
ML3216-R39	0.390	M / K	25	25	135	0.50	250	1.1 $\pm$ 0.3
ML3216-R47	0.470	M / K	25	25	125	0.60	200	1.1 $\pm$ 0.3
ML3216-R56	0.560	M / K	25	25	115	0.70	200	1.1 $\pm$ 0.3
ML3216-R68	0.680	M / K	25	25	105	0.80	150	1.1 $\pm$ 0.3
ML3216-R82	0.820	M / K	25	25	100	0.90	150	1.1 $\pm$ 0.3
ML3216-1R0	1.000	M / K	45	10	75	0.40	100	1.1 $\pm$ 0.3
ML3216-1R2	1.200	M / K	45	10	65	0.50	50	1.1 $\pm$ 0.3
ML3216-1R5	1.500	M / K	45	10	60	0.50	50	1.1 $\pm$ 0.3
ML3216-1R8	1.800	M / K	45	10	55	0.50	50	1.1 $\pm$ 0.3
ML3216-2R2	2.200	M / K	45	10	50	0.60	50	1.1 $\pm$ 0.3
ML3216-2R7	2.700	M / K	45	10	45	0.60	50	1.1 $\pm$ 0.3
ML3216-3R3	3.300	M / K	45	10	41	0.70	50	1.1 $\pm$ 0.3
ML3216-3R9	3.900	M / K	45	10	38	0.80	50	1.1 $\pm$ 0.3
ML3216-4R7	4.700	M / K	45	10	35	0.90	50	1.1 $\pm$ 0.3
ML3216-5R6	5.600	M / K	50	4	32	0.70	25	1.1 $\pm$ 0.3
ML3216-6R8	6.800	M / K	50	4	29	0.80	25	1.1 $\pm$ 0.3
ML3216-8R2	8.200	M / K	50	4	26	0.90	25	1.1 $\pm$ 0.3
ML3216-100	10.000	M / K	50	2	24	1.00	25	1.1 $\pm$ 0.3
ML3216-120	12.000	M / K	50	2	22	1.05	15	1.1 $\pm$ 0.3
ML3216-150	15.000	M / K	35	1	19	0.70	5	1.1 $\pm$ 0.3
ML3216-180	18.000	M / K	35	1	18	0.70	5	1.1 $\pm$ 0.3
ML3216-220	22.000	M / K	35	1	16	0.90	5	1.1 $\pm$ 0.3
ML3216-270	27.000	M / K	35	1	14	0.90	5	1.1 $\pm$ 0.3
ML3216-330	33.000	M / K	35	1	13	1.05	5	1.1 $\pm$ 0.3
ML3216-330K 0.025A	33.000	M / K	35	1	13	0.90	25	1.1 $\pm$ 0.3
ML3216-390	39.000	M / K	40	2	11	3.00	10	1.6 $\pm$ 0.3
ML3216-470	47.000	M / K	40	2	10	3.40	10	1.6 $\pm$ 0.3

Inductanc tolerance : N $\pm$ 30% M $\pm$ 20% L $\pm$ 15% K $\pm$ 10% J $\pm$ 5%