

## PL2012 Series

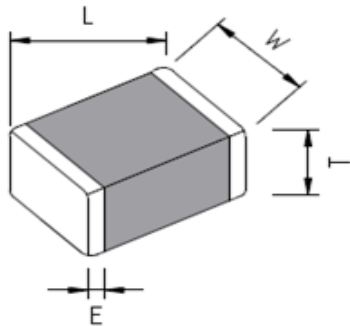
### Features :

- Can keep low inductance variation in high current application.
- This component is SMD type that possess a ultra-low DC resistance and low profile.
- 0.9mm in height, which is suitable for low-profile applications.
- Comparing with a winding type, this series is small, low height, and high efficiency.
- Stable low DC resistance.
- No cross coupling between inductors due to the complete magnetic shield, which is suitable for high dense printed circuit boards.
- Operating temperature range of -55°C to +125°C
- Storage temperature range of -40°C to +85°C

### Applications :

- DC-DC converters.
- Mobile, DSC, DVC, HDD

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



L	W	T	E
2.0 ± 0.2	1.25 ± 0.2	0.9 ± 0.1	0.3~0.7

### Part Number Code :

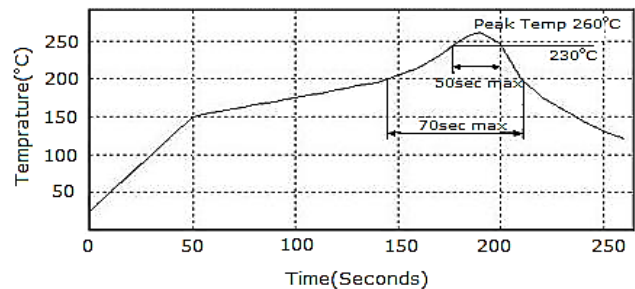
**PL 2012 1N5 K -E**

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



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Part No.	Inductance ( $\mu$ H)	Tolerance	Test Freq. (MHz)	SRF (MHz) Min	DCR ( $\Omega$ ) $\pm 25\%$	Rated Current (mA) Max.
PL2012-R47M	0.47	M	1	100	0.10	1100
PL2012-R68M	0.68	M	1	100	0.12	1000
PL2012-R82M	0.82	M	1	90	0.14	900
PL2012-1R0M	1.00	M / K	1	90	0.16	800
PL2012-1R2M	1.20	M / K	1	80	0.16	800
PL2012-1R5M	1.50	M / K	1	70	0.22	700
PL2012-1R8M	1.80	M / K	1	60	0.22	700
PL2012-2R2M	2.20	M / K	1	50	0.25	600
PL2012-3R3M	3.30	M / K	1	40	0.22	500
PL2012-4R7M	4.70	M / K	1	30	0.30	500

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