

# Inductors

## For Power Line

### SMD

# PLN Series PLN6012 Type

## FEATURES

- The PLN series are characterized by small size, low profile and high current handling capacity.
- Because they are no shield and no base type, these parts can be used in high-density mounting configurations.
- Broad solder-pad ensures secure, reliable mounting.
- As the affinity for environment, PLN series doesn't contain any of Pb materials.
- Provided in embossed carrier tape packaging for automatic mounting machines.

## APPLICATIONS

DVC, DSC, PDA, MD, MP3, LCD Display, GSM Phone, Cellular Phone, Cordless Telephone, HDD, FDD etc.

## SPECIFICATIONS

Type	Operating temperature range [including self-temperature rise]	Storage temperature range [Unit of products]
PLN4018	-20 to +85	-40 to +85
PLN5018	-20 to +85	-40 to +85
PLN6012	-20 to +85	-40 to +85

## PRODUCT IDENTIFICATION

PLN 6012 T- 100 M R80 -1

Series name (SMD type Choke Coil)

## Dimensions LxWxT

4018	4.0x4.0x1.8mm
5018	5.0x5.0x1.8mm
6012	6.6x5.7x1.25mm

## Packaging style

T	Taping(reel)
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## Inductance value

4R7	4.7 $\mu$ H
100	10 $\mu$ H

## Inductance tolerance

M	$\pm 20\%$
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## Rated current

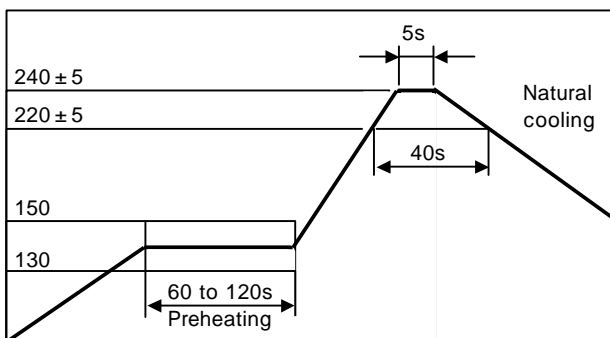
1R1	1.1A
R80	0.8A

Series No.

## PACKAGING STYLE AND QUANTITIES

Packaging style	Type	Quantity
Taping	PLN4018	3000pieces/reel
	PLN5018	3000pieces/reel
	PLN6012	3000pieces/reel

## RECOMMENDED REFLOW SOLDERING CONDITIONS



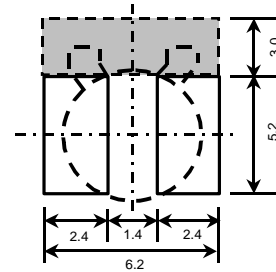
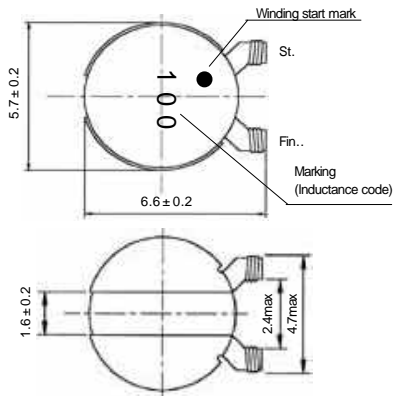
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## SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Dimensions in mm



## ELECTRICAL CHARACTERISTICS

Inductance ( $\mu\text{H}$ )	Inductance tolerance(%)	Test frequency L(kHz)	DC resistance ( $\Omega$ ) $\pm 20\%$	Rated current (mA)*		Part No.
				Based on inductance change	Based on temperature rise	
4.7	$\pm 20$	1	0.15	1100max.	1250typ.	PLN6012T-4R7M1R1-1
6.8	$\pm 20$	1	0.19	950max.	1000typ.	PLN6012T-6R8MR95-1
10	$\pm 20$	1	0.27	800max.	950typ.	PLN6012T-100MR80-1
15	$\pm 20$	1	0.40	650max.	650typ.	PLN6012T-150MR65-1
22	$\pm 20$	1	0.60	550max.	600typ.	PLN6012T-220MR55-1
33	$\pm 20$	1	0.93	420max.	490typ.	PLN6012T-330MR42-1

\* Rated current: Value obtained when current flows and the temperature has risen to 30 °C or when DC current flows and the initial value of inductance fallen by 10%, whichever is smaller.

- Test equipment Inductance: HP4294A PRECISION IMPEDANCE ANALYZER, or equivalent  
Rdc: DIGITAL MILLIOHM METER VP-2941A MATSUSHITA, or equivalent

## TYPICAL ELECTRICAL CHARACTERISTICS

### INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS

