

## Shielded SMD Power Inductor-PDRH Series

### Applications

- OA equipment.
- Notebook PCs
- LCD monitor
- Portable terminal equipment
- DC/DC converters, etc



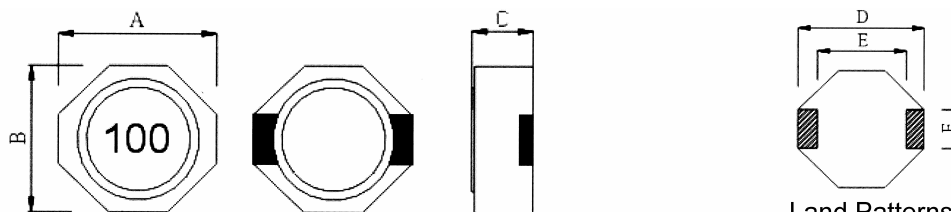
### Inductance and rated current ranges

- PDRH0418 1.0~100μH 1.5~0.10A
- Test equipment:  
L: HP4284A Precision LCR meter.  
DCR: Milli-ohm meter.  
Electrical Specification at 25°C

### Features

- Small size with the electrode attached to the ferrite RI core directly.  
Excellent property with high saturation for surface mounting.

### Dimension



Land Patterns

Unit: mm

Codes	A	B	C(Max)	D(Max)	E(Ref.)	F(Ref.)
PDRH0418	3.85±0.3	3.85±0.3	1.8	4.8	3.0	1.6

### Electrical Characteristics

Part No.	L (μH)	Tol. (%)	DC Resistance (Ω)Max	Rated DC Current (A) Max
PDRH0418NT1R0	1.0	30	0.058	1.5
PDRH0418NT1R2	1.2	30	0.070	1.4
PDRH0418NT2R2	2.2	30	0.082	1.0
PDRH0418NT3R3	3.3	30	0.105	0.92
PDRH0418NT3R9	3.9	30	0.120	0.80
PDRH0418NT4R7	4.7	30	0.150	0.76
PDRH0418NT5R6	5.6	30	0.180	0.69
PDRH0418NT6R8	6.8	30	0.220	0.62
PDRH0418NT8R2	8.2	30	0.240	0.56
PDRH0418MT100	10	20	0.255	0.50
PDRH0418MT150	15	20	0.390	0.40
PDRH0418MT220	22	20	0.610	0.32
PDRH0418MT330	33	20	0.920	0.28
PDRH0418MT470	47	20	1.130	0.20
PDRH0418MT680	68	20	1.520	0.15
PDRH0418MT101	100	20	2.120	0.10

- Note:**
1. Test Frequency 100 kHz 0.1Vrms.
  2. Rated DC Current: The current when the inductance decrease to 70% of its initial value or the current when the temperature of coil increases to  $\Delta 40^{\circ}\text{C}$ . The smaller one is defined as Rated DC Current. (Ta=25°C)
  3. Operating temperature range -25~85°C.

### Product Identification

**PDRH 0418 M T 100**

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

- (1) Type: SMD Power Inductors
- (2) Dimensions (mm): 0418=3.85×3.85×1.8
- (3) Tolerance: M=20%,N=30%
- (4) Packaging style: T (Tape and Reel)
- (5) Inductance: 1R1=1.1μH, 470=47μH, 101 =100μH