PIN Power Inductor
DEP1016

RoHS

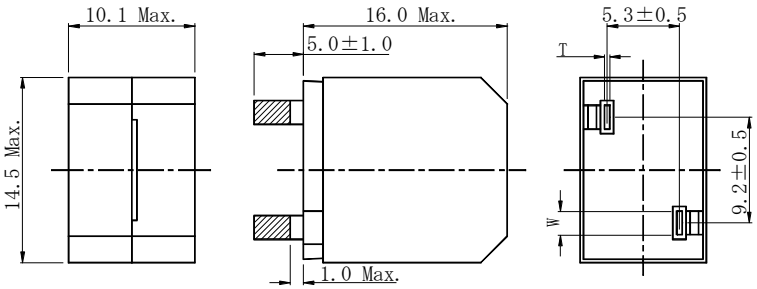
Description
- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 14.5 × 10.1 × 16.0 mm Max.
- Product weight:8.9 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data
- Operating temperature range: -40℃~+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃

Packaging
- Pallet packaging.

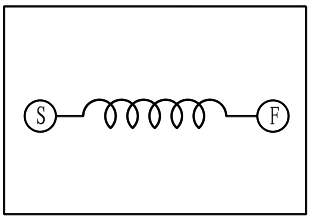
Applications
- Ideally used in Digital amplifier filter in car audio, home theater and large LCD etc.

Dimension - [mm]



No.	L(μH)	T(mm)	W(mm)
1	5.0	0.60ref.	1.75ref.
2	10.0	0.50ref.	1.75ref.
3	15.0	0.50ref.	1.75ref.
4	18.0	0.45ref.	1.75ref.
5	22.0	0.45ref.	1.75ref.
6	27.0	0.40ref.	1.75ref.
7	33.0	0.35ref.	1.75ref.

Schematics - [mm]



Electrical Characteristics

Part No.	Stamp	Inductance [within] ※1	D.C.R.(mΩ) [Max.] (at20℃)	Saturation Current (A) (at 20℃) ※ 2	Temperature rise current (A) ※3
DEP1016NP-5R0PB	5R0	5.0μH±25%	5.1	18.2	14.1
DEP1016NP-100PB	100	10.0μH±25%	9.1	13.4	11.5
DEP1016NP-150PB	150	15.0μH±25%	9.1	8.7	11.5
DEP1016NP-180PB	180	18.0μH±25%	10.1	7.9	9.8
DEP1016NP-220PB	220	22.0μH±25%	11.4	7.2	8.5
DEP1016NP-270PB	270	27.0μH±25%	13.8	6.6	7.5
DEP1016NP-330PB	330	33.0μH±25%	15.0	5.8	7.3

※1. Measuring condition: at 1kHz.
※2. Saturation current: The value of D.C. current when the inductance decreases to 75% of it's nominal value.
※3. Temperature rise current: The value of D.C. current when the temperature rise is △t＝40℃(Ta＝20℃).

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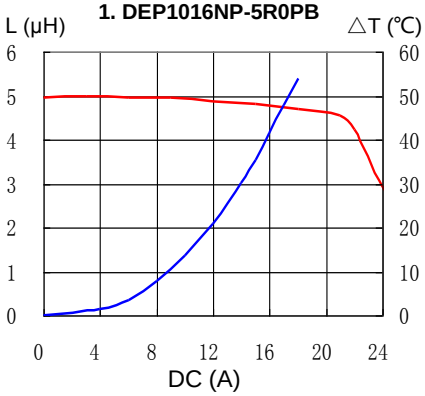
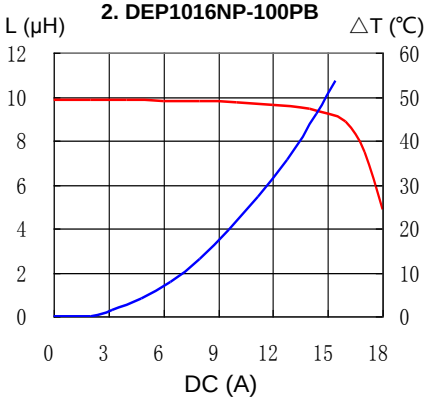
Saturation Current & Temperature Rise Graph

L (20℃) △T

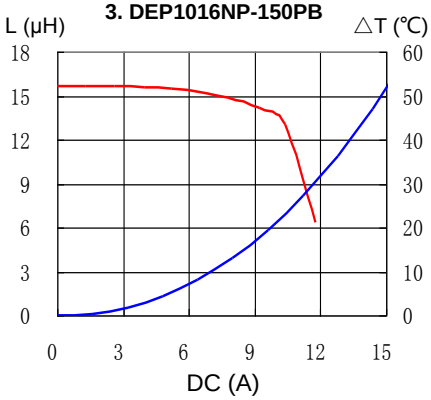
1. DEP1016NP-5R0PB



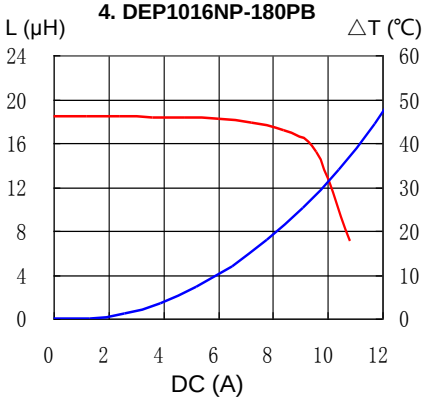
2. DEP1016NP-100PB



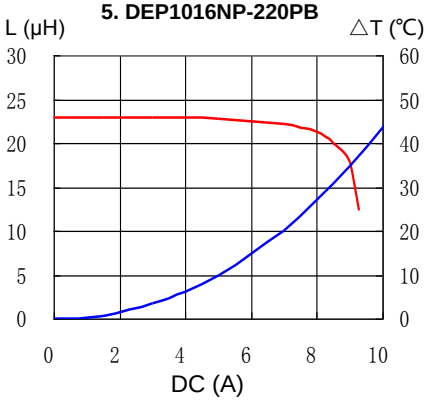
3. DEP1016NP-150PB



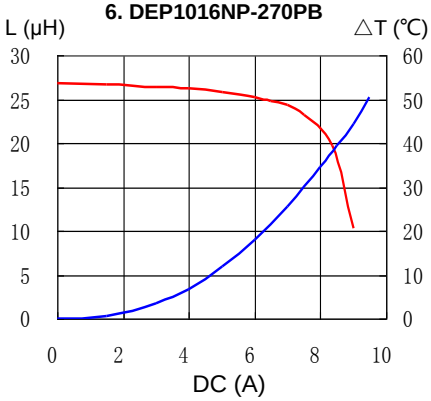
4. DEP1016NP-180PB



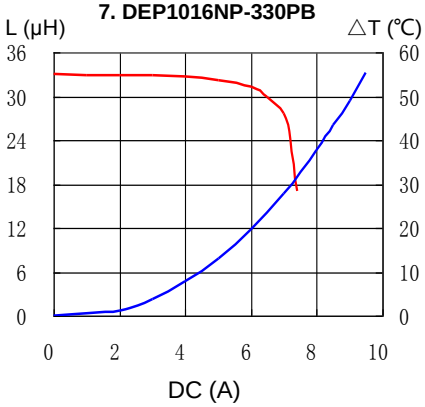
5. DEP1016NP-220PB



6. DEP1016NP-270PB



7. DEP1016NP-330PB



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