

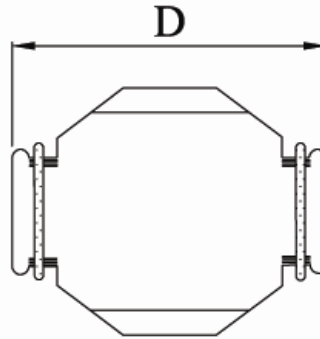
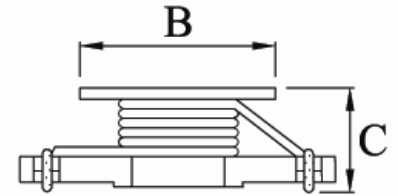
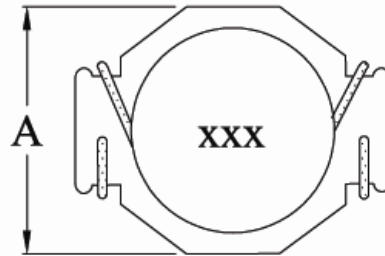
IDE Series

SMT Unshielded Power Inductors – IDE0806、IDE1813、IDE3316、IDE5022

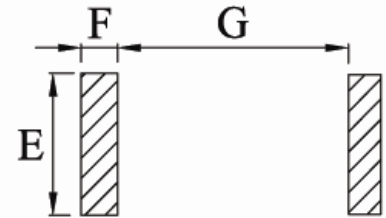
TRIGON
COMPONENTS



Configurations:



Land Pattern



FEATURES

- SMD choke with base and low RDC enhanced.
- Open magnetic circuit construction.
- Compact and thin.
- Min-Zn material core.
- Rugged self-leaded construction.

APPLICATION

- Fit for power line circuit.
- To help you go pass the CE/FCC standard.
- PC Base Device / Handheld Device / IA...
- Notebook, DC/DC converters, Power supply applications. etc.

ORDERING CODE

IDE 0806 M 220 T
(1) (2) (3) (4) (5)

- (1) SMT Unshielded Power Inductors
- (2) Size:
0806, 1813, 3316, 5022
- (3) Tolerance Code:
K: 10%, L: 15%, M: 20%
N: 30%
- (4) Inductance: μH
- (5) Package:
T: Tape & Reel

Dimension (mm)

ITEM	A (max)	B ± 0.3	C ± 0.3	D (max)	E ± 0.3	F ± 0.3	G ± 0.3
IDE0806	6.2	6.5	4.9	8.6	2.6	1.2	6.5
IDE1813	6.1	4.8	4.7	9.1	3.5	2.2	4.8
IDE3316	9.91	8.38	6.35	13.21	4.06	1.52	8.64
IDE5022	16.26	12.70	8.00	22.35	8.64	3.18	14.35

※Design as Customer's Requested Specifications.

Inductance Range

Item	μH
IDE0806	0.18 ~ 47.00
IDE1813	0.56 ~ 47.00
IDE3316	0.33 ~ 4.70
IDE5022	0.78 ~ 15.00

IDE Series

SMT Unshielded Power Inductors – IDE0806

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Electrical Characteristics for IDE0806 Series

Part Number	Inductance (μ H)	DCR (Ω) (max)	SRF (typ)	Isat (A) (max)	Irms (A) (max)
IDE0806MR18	0.18	0.003	800	14.00	10.00
IDE0806MR33	0.33	0.004	600	10.00	7.00
IDE0806MR56	0.56	0.010	200	7.70	6.00
IDE0806M1R2	1.20	0.017	140	5.30	4.40
IDE0806M2R2	2.20	0.035	100	3.50	3.10
IDE0806M3R3	3.30	0.040	80	3.00	2.70
IDE0806M4R7	4.70	0.054	50	2.60	2.20
IDE0806M6R8	6.80	0.080	45	2.20	1.80
IDE0806M100	10.00	0.110	40	1.90	1.50
IDE0806M150	15.00	0.170	30	1.50	1.20
IDE0806M220	22.00	0.250	25	1.20	1.00
IDE0806M330	33.00	0.350	20	0.99	0.82
IDE0806M470	47.00	0.470	15	0.87	0.72

- ※Test Freq. : 1KHz / 1V.
- ※Isat=L value 10% drop
- ※Irms=Temperature 30 °C Rise

Test Equipment:

- ※HP4284A, HP42841A-L, IDC, Q,RDC
- ※HP8753D NETWORK ANALYZER-SRF

Standard Atmospheric Conditions:

Ambient Temp.:20+/-15°C

Relative Humidity:65+/-20%

If there may be any doubt on the result,

Measurement shall be made within the following limits:

Ambient Temp.: 25+/-5°C

Relative Humidity:75+/-10%

Operating & Storage Condition:

OPERATING TEMP: -40~+85°C

STORAGE TEMP: -40~+85°C

STORAGE LIFE TIME: 12 MONTH @25°C, RH 65%

Attention & Caution:

- ※Splashing water or salt water
- ※Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
- ※Vibrations or shocks which exceed the specified condition
- ※Dew condenses
- ※Please be careful for the stress to this product by board flexure or something after the mounting.

IDE Series

SMT Unshielded Power Inductors – IDE1813

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Electrical Characteristics for IDE1813 Series

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
IDE1813NR56	0.56	100	0.010	7.70
IDE1813M1R2	1.20	100	0.017	5.30
IDE1813M2R2	2.20	100	0.035	3.50
IDE1813M4R7	4.70	100	0.054	2.60
IDE1813M100	10.00	100	0.111	1.90
IDE1813M150	15.00	100	0.170	1.50
IDE1813M220	22.00	100	0.250	1.20
IDE1813M330	33.00	100	0.350	0.99
IDE1813M470	47.00	100	0.470	0.87

※Test Freq. : 100KHz / 0.25V.

※Operating Temp. : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

※Inductance drop = 10% typ. at IDC.

IDE Series

SMT Unshielded Power Inductors – IDE3316

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Electrical Characteristics for IDE3316 Series

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
IDE3316NR33	0.33	100	0.002	20.00
IDE3316NR68	0.68	100	0.005	13.00
IDE3316N1R0	1.00	100	0.006	11.00
IDE3316M1R5	1.50	100	0.008	9.00
IDE3316M2R2	2.20	100	0.011	7.80
IDE3316M2R7	2.70	100	0.012	7.00
IDE3316M3R3	3.30	100	0.014	6.40
IDE3316M4R7	4.70	100	0.018	5.40

※Test Freq. : 100KHz / 0.1V

※Operating Temp. : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

※Inductance drop = 10% typ. at IDC.

IDE Series

SMT Unshielded Power Inductors – IDE5022

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Electrical Characteristics for IDE5022 Series

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (Ω) (max)	IDC (A) (max)
IDE5022NR78	0.78	100	0.0026	30.00
IDE5022M1R5	1.50	100	0.0040	25.00
IDE5022M2R2	2.20	100	0.0061	20.00
IDE5022M3R3	3.30	100	0.0086	17.00
IDE5022M3R9	3.90	100	0.010	15.00
IDE5022M4R7	4.70	100	0.014	13.00
IDE5022M6R0	6.00	100	0.017	12.00
IDE5022M7R8	7.80	100	0.018	11.00
IDE5022M100	10.00	100	0.026	10.00
IDE5022M150	15.00	100	0.032	8.00

※Test Freq. : 100KHz / 0.1V

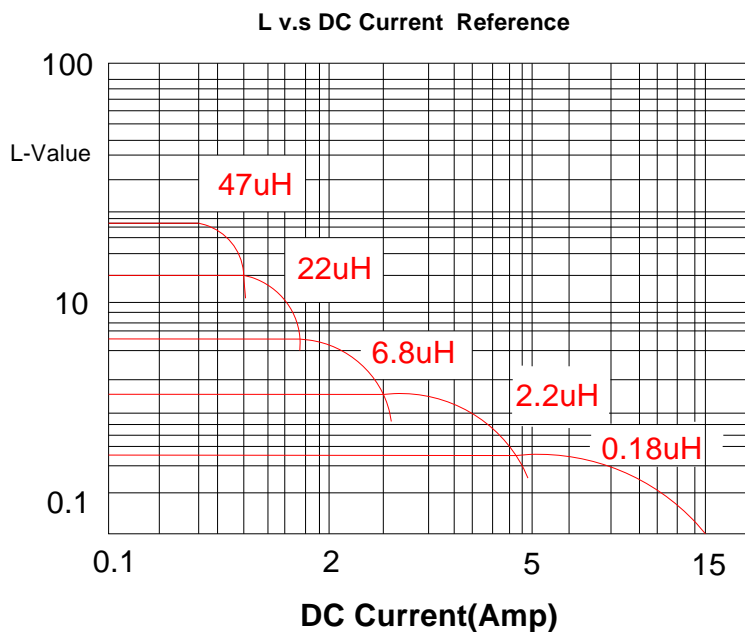
※Operating Temp. : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

※Inductance drop = 10% typ. at IDC.

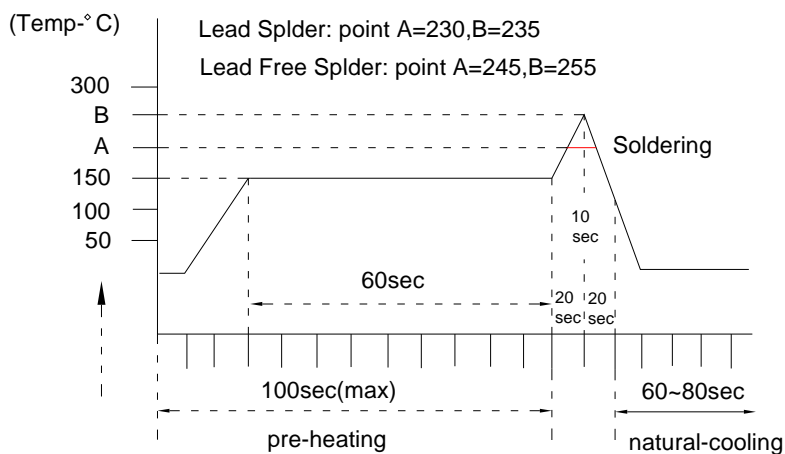
IDE Series

SMT Unshielded Power Inductors – IDE0806

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Recommand Reflow Curve(Time: Second)



Iron Soldering: 3 Second Max. @260° C