

HIGH CURRENT THROUGH-HOLE INDUCTOR

DEP2520 SERIES

APPLICATIONS:

- High current and high temperature applications
- DC/DC converters
- High current motor and switching noise suppression
- Inverters

FEATURES:

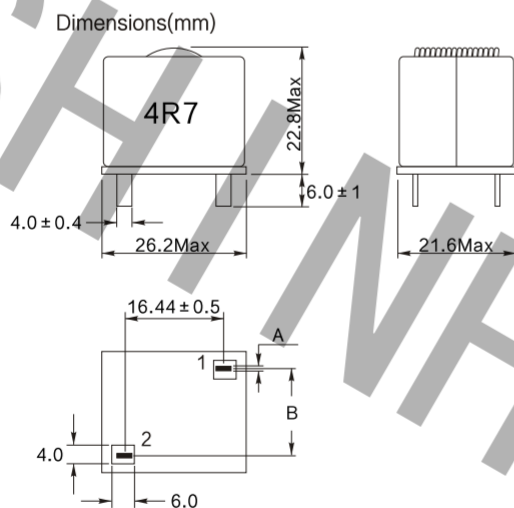
- High temperature operation, up to 180°C continuous with no aging
- Low DCR to minimize losses and reduce temperature rise
- Powdered iron alloy core technology provides stable inductance and saturation over operating temperature with satisfactory core losses
- Soft saturation gives predictable inductance decrease with increasing DC current independent of temperature
- Standard terminal is stripped and tinned for through hole mounting but other terminal configurations such as bare copper, SMD, and press fit pin are available upon request
- Custom options are available



ELECTRICAL CHARACTERISTICS@25°C

Part Number	Inductance (uH) $\pm 20\%$ 100KHz, 0.25V	DCR (m Ω)Max	SRF (MHz)Typ	Heat rating current Irms (A)	Saturation current Isat 1 (A)	Saturation current Isat 2 (A)
DEP2520-1R2M	1.2	0.30	90	80	110	150
DEP2520-2R2M	2.2	0.40	45	70	75	110
DEP2520-3R3M	3.3	0.70	25	50	60	90
DEP2520-4R7M	4.7	0.95	15	45	50	70
DEP2520-6R8M	6.8	1.15	10	40	45	60
DEP2520-8R2M	8.2	1.50	9	35	35	50
DEP2520-100M	10	2.00	8	30	30	45

TECHNICAL INFORMATION & WINDING



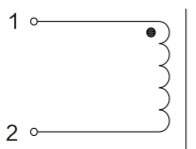
Part Number	A	B
DEP2520-1R2M	3.2	10.14
DEP2520-2R2M	2.5	10.84
DEP2520-3R3M	2.0	11.34
DEP2520-4R7M	1.8	11.54
DEP2520-6R8M	1.6	11.74
DEP2520-8R2M	1.4	11.94
DEP2520-100M	1.1	12.24

Note:

- All test data is referenced to 25°C ambient
- Operating temperature range -40°C to +180°C
- The part temperature (ambient + temp. rise) should not exceed 180°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
- Isolation voltage, coil to core: 350 VDC, 60s, 5 mA max.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, $\Delta T=40^\circ\text{C}$ without core loss.
- Saturation Current (Isat 1) will cause L0 to drop approximately 20%
- Saturation Current (Isat 2) will cause L0 to drop approximately 30%

Note: All specifications subject to change without notice.

Winding



HIGH CURRENT POWER INDUCTOR DEP3231 SERIES



APPLICATIONS:

- PV inverter/Industrial control/New energy
- DC /DC converters/Motherboards/Filter
- High current switching regulators

FEATURES:

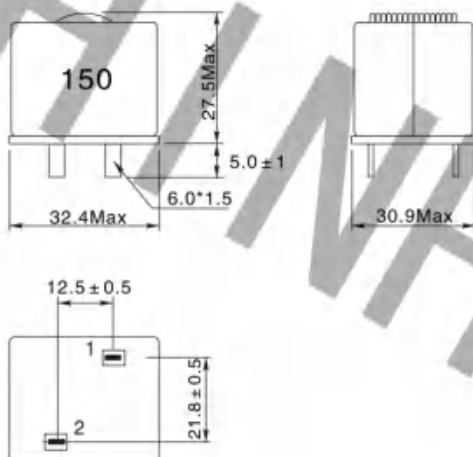
- Excellent DC bias capability to handle instantaneous peak current.
- Flat wire winding, achieving very low DC resistance.
- The inductance value and DC bias characteristic are little affected by temperature.
- Magnetically shielded structure, excellent resistance to electromagnetic interference.
- Compact design saves PCB mounting area.
- Operating temperature: $-55^{\circ}\text{C} \sim +155^{\circ}\text{C}$ (Including coil's temperature rise)

ELECTRICAL CHARACTERISTICS@25°C

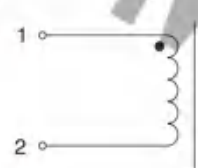
Part Number	Inductance (uH) $\pm 20\%$ 100KHz,0.1V	DCR (m Ω)Typ	DCR (m Ω)Max	Heat rating current I _{rms} (A)	Saturation current I _{sat} (A)
DEP3231-6R2M	6.2	0.55	0.66	68.0	100
DEP3231-8R2M	8.2	0.70	0.85	60.0	88.0
DEP3231-100M	10	0.88	1.05	50.0	78.0
DEP3231-120M	12	1.10	1.30	45.0	70.0
DEP3231-150M	15	1.35	1.60	42.0	64.0
DEP3231-180M	18	1.55	1.85	38.0	58.0
DEP3231-220M	22	1.8	2.15	35.0	54.0
DEP3231-250M	25	2.10	2.50	32.0	50.0
DEP3231-300M	30	2.45	2.95	30.0	47.0

TECHNICAL INFORMATION & WINDING

Dimensions(mm)



Winding

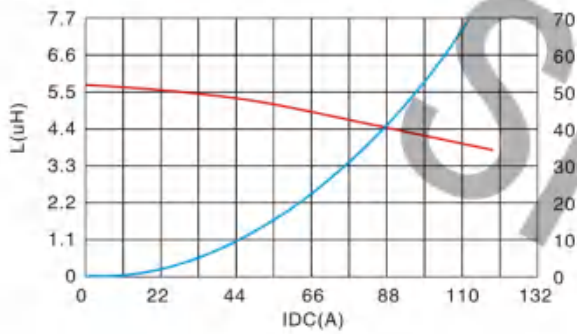


Note:

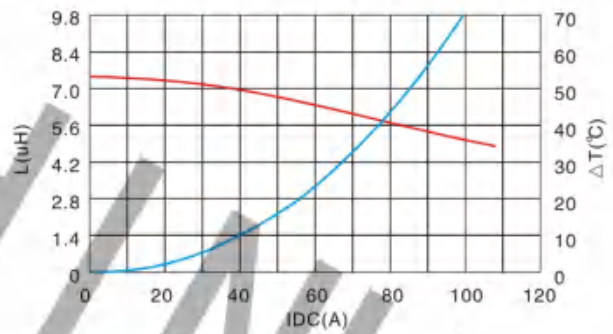
- All test data is referenced to 25°C ambient
- Operating temperature range -55°C to $+155^{\circ}\text{C}$
- Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately, $\Delta T=50^{\circ}\text{C}$ without core loss.
- Saturation Current (I_{sat}) will cause L0 to drop approximately 30%

SATURATION CURRENT VS TEMPERATURE RISE CURRENT CURVE

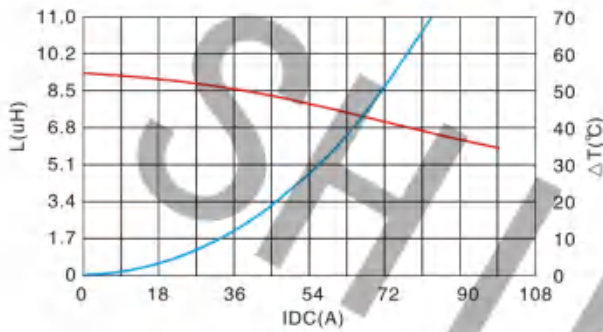
DEP3231-6R2M



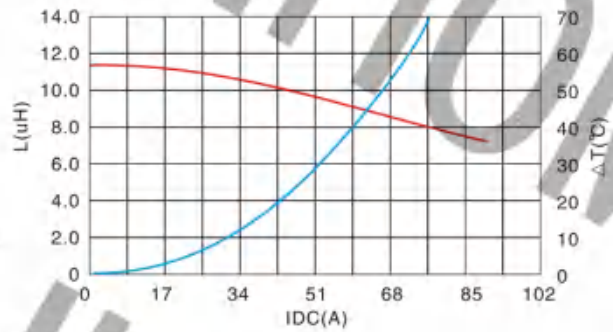
DEP3231-8R2M



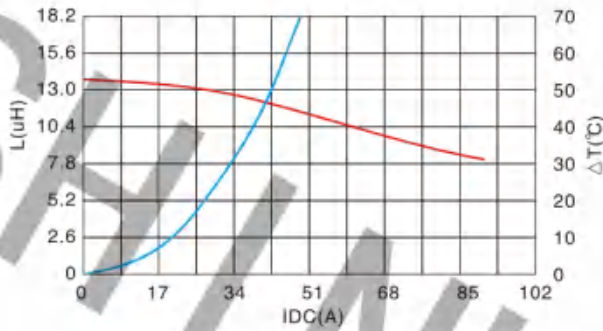
DEP3231-100M



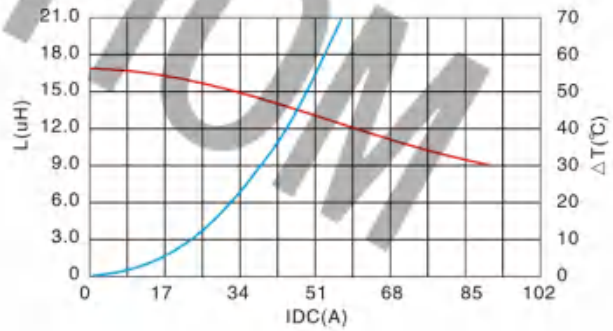
DEP3231-120M



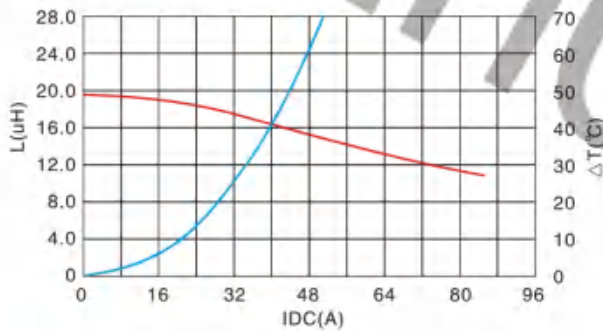
DEP3231-150M



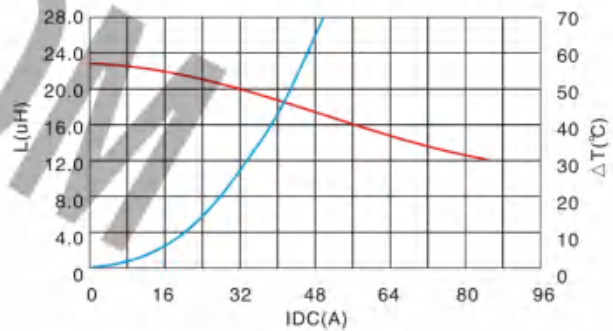
DEP3231-180M



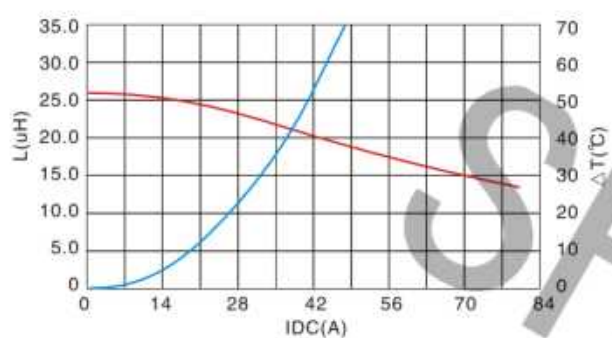
DEP3231-220M



DEP3231-250M



DEP3231-300M



HIGH CURRENT POWER INDUCTOR DEPM4233 SERIES



FEATURES:

- Core material Ferrite
- AEC-Q200 Grade 1 (40°C to +125°C)
- Flat wire windings provide extremely low DC and AC resistance.
- Through-hole mounting for excellent board adhesion
- Cover has solderable tabs for additional mounting stability.
- High current, high inductance power inductors designed for high current power supply applications
- RoHS compliant

ELECTRICAL CHARACTERISTICS@25°C

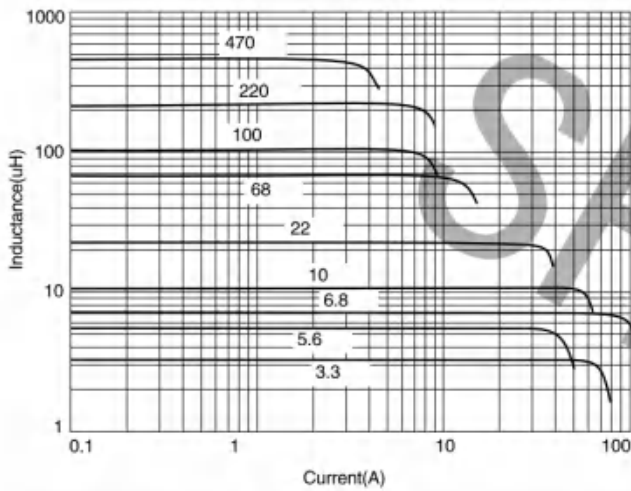
Part Number	Inductance (uH) $\pm 20\%$ 100KHz, 0.1V	DCR (m Ω) Max	SRF (MHz) Typ	Heat rating current I _{rms} (A)	Saturation current I _{sat} (A)		
					10% drop	20% drop	30% drop
DEPM4233-3R3M	3.3	0.75	27.7	44	92.0	95.0	98.0
DEPM4233-5R6M	5.6	0.75	22.8	44	63.0	65.0	67.0
DEPM4233-6R8M	6.8	2.95	21.7	34	92.0	97.8	101.8
DEPM4233-100M	10	2.95	18.8	34	56.0	60.0	63.0
DEPM4233-150M	15	2.95	15.2	34	45.0	47.0	49.0
DEPM4233-220M	22	2.95	12.0	34	32.8	35.4	36.6
DEPM4233-330M	33	2.95	10.0	34	22.5	24.7	25.8
DEPM4233-470M	47	2.95	8.5	34	16.0	17.6	18.6
DEPM4233-680M	68	2.95	6.4	34	10.6	12.2	13.0
DEPM4233-101M	100	2.95	5.2	34	6.88	7.8	8.36
DEPM4233-151M	150	2.95	4.2	34	4.18	4.96	5.4
DEPM4233-221M	220	11.55	5.0	17.5	6.4	7.2	7.6
DEPM4233-331M	330	11.55	4.1	17.5	4.6	5.2	5.6
DEPM4233-471M	470	11.55	3.6	17.5	3.0	3.6	3.8

Note:

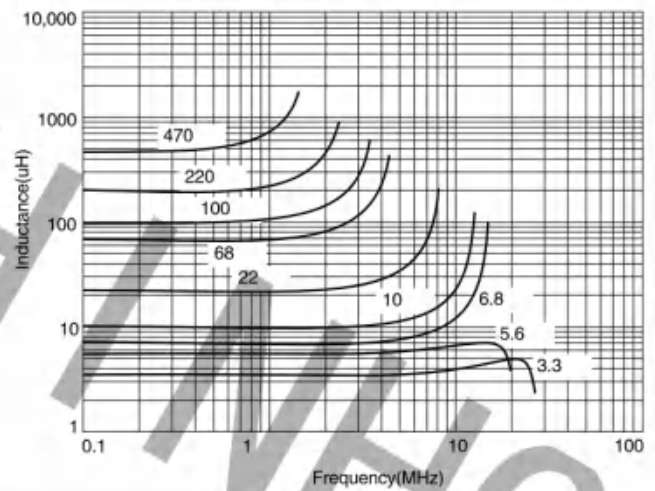
- All test data is referenced to 25°C ambient
- Ambient temperature 40°C to +125°C with I_{rms} current, +125°C to +165°C with derated current
- Storage temperature Component: 40°C to +165°C. Tray packaging: 40°C to +80°C
- Inductance tested at 100kHz, 0.1Vrms on Agilent/HP4192A.
- DCR measured on a Keithley 580 micro-ohmmeter or equivalent.
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)
- Packaging 9 parts per tray
- PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash.

Note: All specifications subject to change without notice.

TYPICAL L VS CURRENT



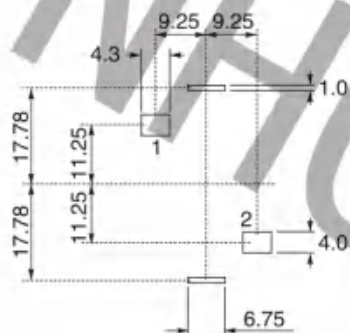
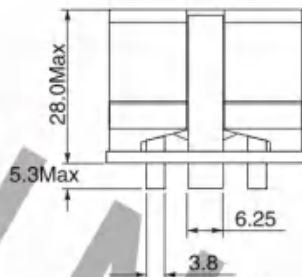
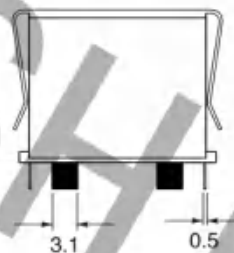
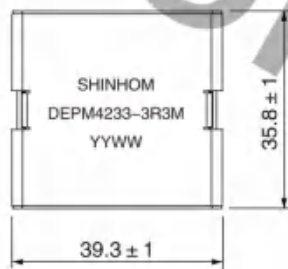
TYPICAL L VS FREQUENCY



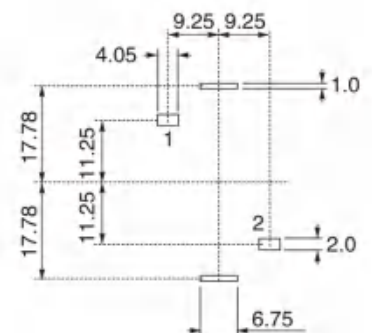
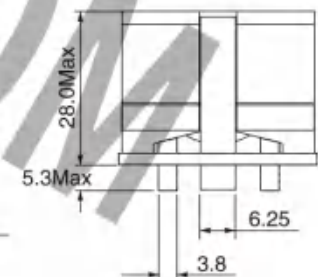
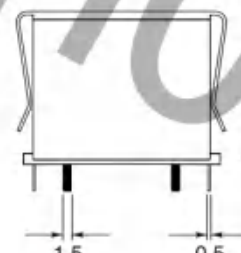
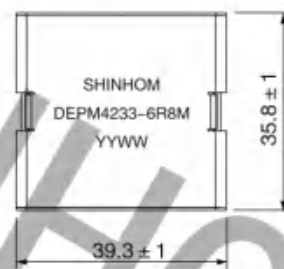
TECHNICAL INFORMATION & WINDING

Dimensions(mm)

3.3~5.6uH



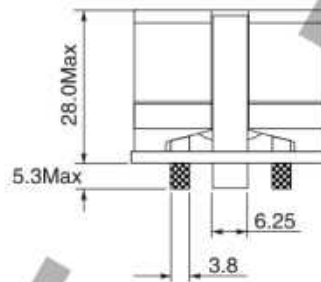
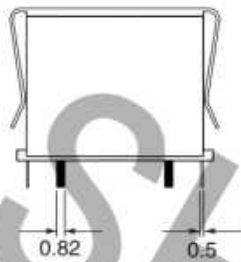
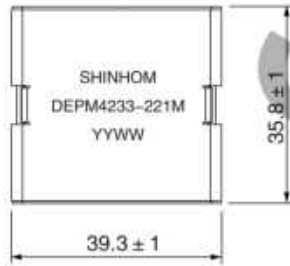
6.8~150uH



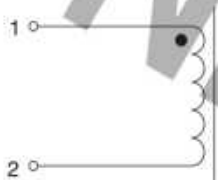
TECHNICAL INFORMATION & WINDING

Dimensions(mm)

220~470uH



Winding



POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA1010A,1010B SERIES

FEATURES:

- Compact size using flat wire,DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

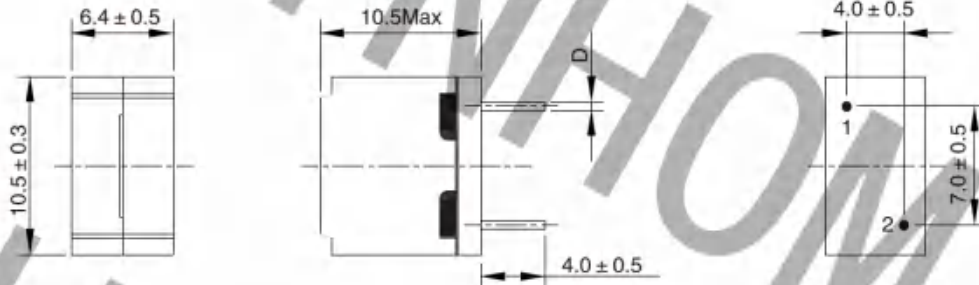


ELECTRICAL CHARACTERISTICS:

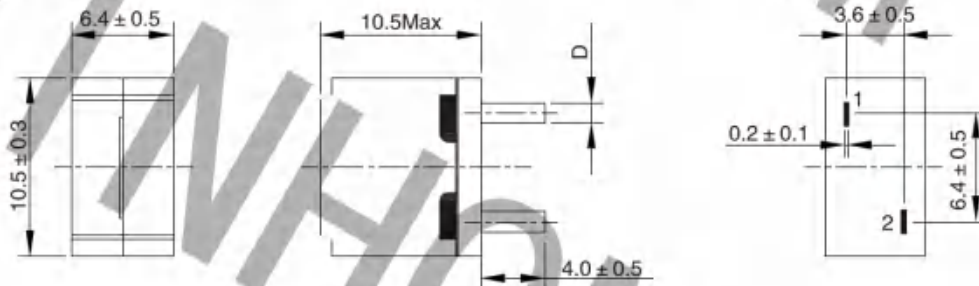
Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Max	Irms A Max	D mm
HDA1010A-100M	10	18.0	7.5	5.0	0.6
HDA1010A-120M	12	25.0	6.0	4.8	0.5
HDA1010A-150M	15	30.0	5.3	4.5	0.45
HDA1010A-180M	18	35.0	4.8	4.5	0.45
HDA1010A-220M	22	45.0	4.3	4.0	0.4
HDA1010B-100M	10	18.0	7.5	5.5	1.2
HDA1010B-120M	12	20.0	6.0	5.0	1.2
HDA1010B-150M	15	23.0	5.3	4.8	1.2

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

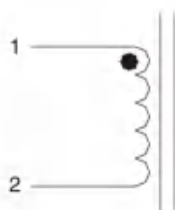
HDA1010A



HDA1010B



Winding



Note:

1. Measuring instrument: 3260B+3265B,CH502BC.
2. Measurement Frequency for Inductance: 1kHz,1V.
3. Electrical specifications at 25°C
4. Operating temperature: -40°C to +130°C(Include temp. Rise 40°C)
5. Storage temperature: -25°C to +85°C
6. All products are RoHS-compliant
7. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA1010AG SERIES

FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

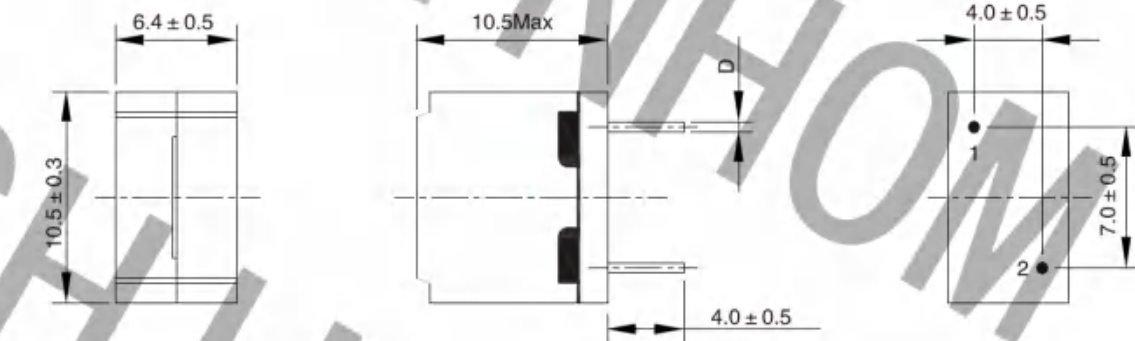
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



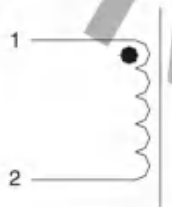
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Max	Irms A Max	D mm
HDA1010AG-100M	10	20.5	7.5	4.5	0.6
HDA1010AG-120M	12	20.5	6.5	4.5	0.6
HDA1010AG-150M	15	20.5	5.0	4.5	0.6
HDA1010AG-220M	22	20.5	3.5	4.5	0.6
HDA1010AG-330M	33	20.5	2.0	4.5	0.6

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Winding



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Measurement Frequency for Inductance: 1kHz, 1V.
3. Electrical specifications at 25°C
4. Operating temperature: -40°C to +130°C (Include temp. Rise 40°C)
5. Storage temperature: -25°C to +85°C
6. All products are RoHS-compliant
7. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA1315B SERIES

FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

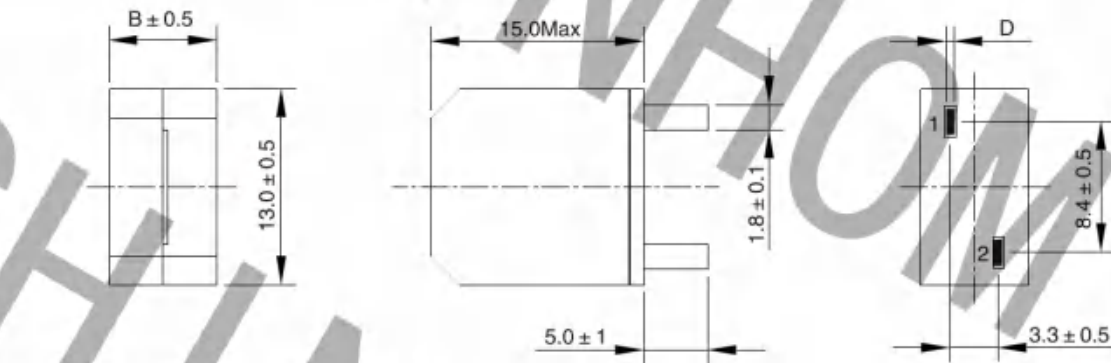
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



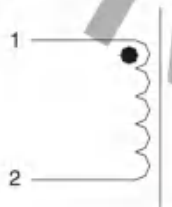
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	I _{sat} A Max	I _{rms} A Max	B mm	D mm
HDA1315B-100M	10	5.6	7.0	8.5	8.4	0.5
HDA1315B-120M	12	6.5	6.6	8.0	8.4	0.5
HDA1315B-150M	15	7.2	5.5	7.5	8.4	0.5
HDA1315B-220M	22	9.0	5.2	7.0	8.4	0.4
HDA1315B-270M	27	15.0	4.0	6.0	8.4	0.33
HDA1315B-330M	33	16.0	3.8	5.5	8.4	0.33

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Winding



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Measurement Frequency for Inductance: 1kHz, 1V.
3. Electrical specifications at 25°C
4. Operating temperature: -40°C to +130°C (Include temp. Rise 40°C)
5. Storage temperature: -25°C to +85°C
6. All products are RoHS-compliant
7. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA1315E SERIES

FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

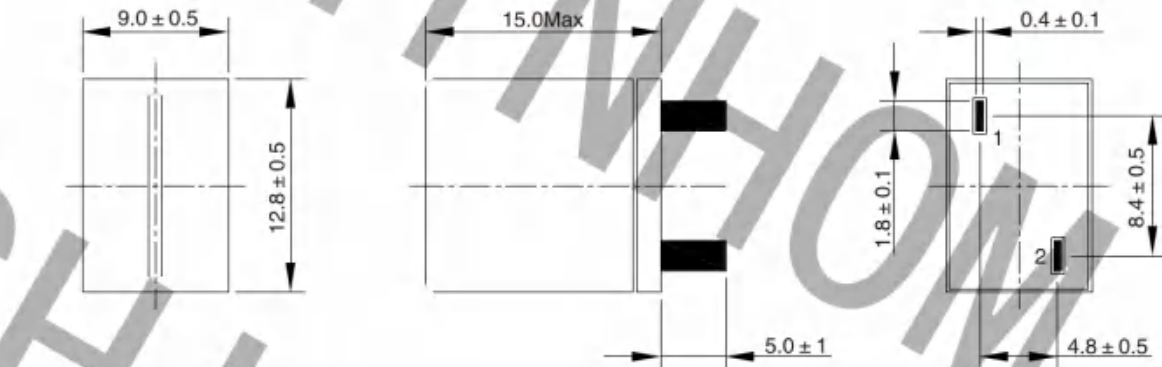
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



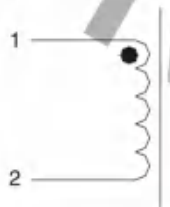
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Max	Irms A Max
HDA1315E-100M	10	10.0	11.0	7.5
HDA1315E-150M	15	12.0	9.5	7.0
HDA1315E-220M	22	12.0	5.2	7.0
HDA1315E-330M	33	12.0	3.5	7.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Winding



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Measurement Frequency for Inductance: 1kHz, 1V.
3. Electrical specifications at 25°C
4. Operating temperature: -40°C to +130°C (Include temp. Rise 40°C)
5. Storage temperature: -25°C to +85°C
6. All products are RoHS-compliant
7. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

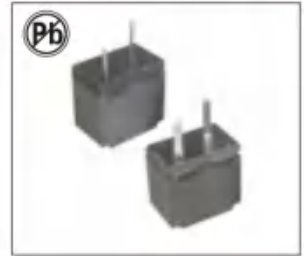
HDA1416A SERIES

FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

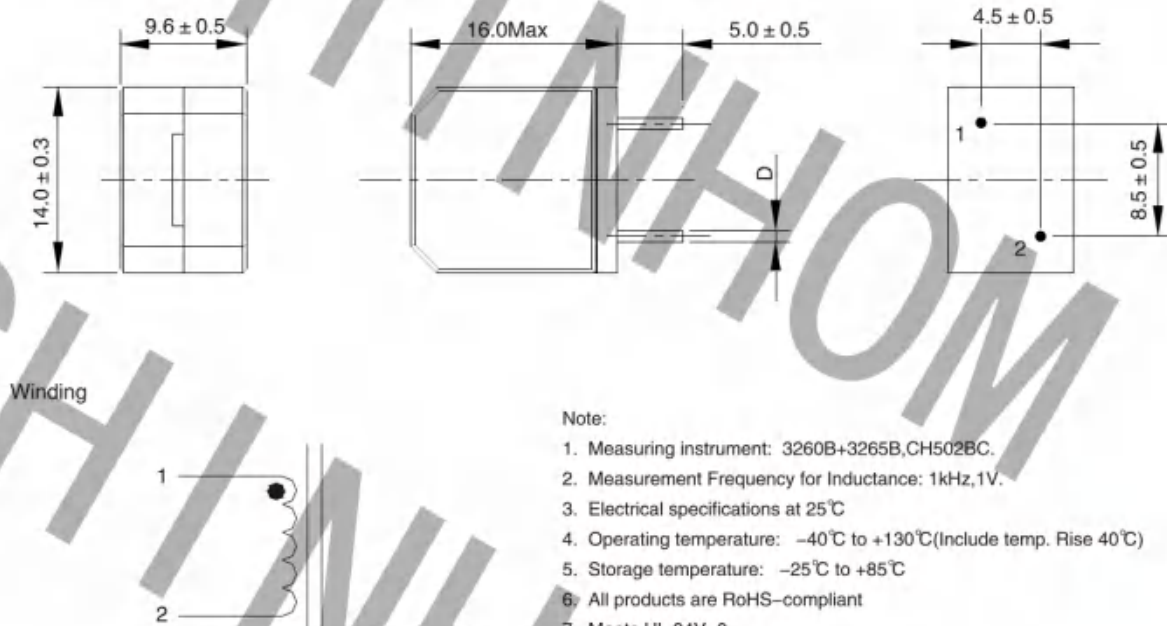
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Max	Irms A Max	D mm
HDA1416A-100M	10	15.0	11.5	7.0	0.8
HDA1416A-150M	15	18.0	10.0	6.0	0.8
HDA1416A-220M	22	20.0	8.0	5.5	0.7
HDA1416A-330M	33	28.0	5.5	5.0	0.65

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Measurement Frequency for Inductance: 1kHz, 1V.
3. Electrical specifications at 25°C
4. Operating temperature: -40°C to +130°C (Include temp. Rise 40°C)
5. Storage temperature: -25°C to +85°C
6. All products are RoHS-compliant
7. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA1416B SERIES

FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

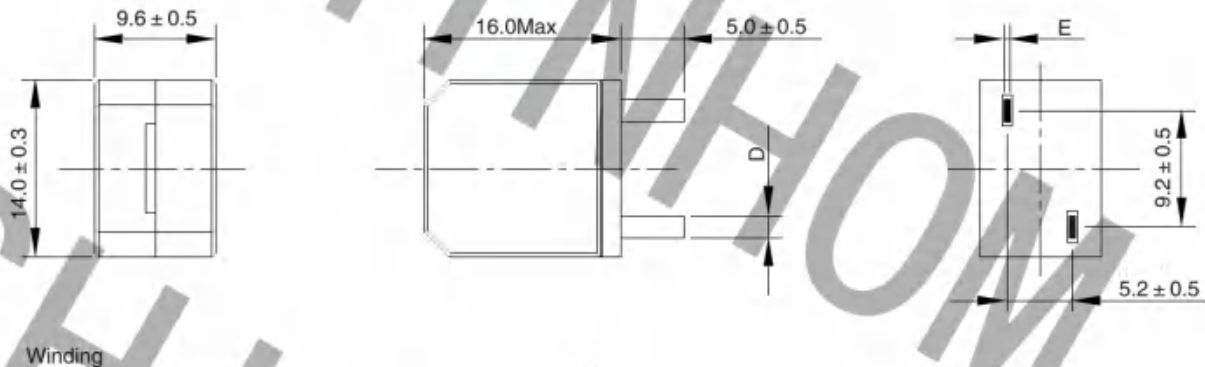
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Max	Irms A Max	D mm	E mm
HDA1416B-100M	10	6.5	9.0	8	1.8	0.5
HDA1416B-120M	12	6.5	8.5	8	1.8	0.5
HDA1416B-150M	15	7.0	7.5	7.5	1.8	0.5
HDA1416B-220M	22	12.0	6.5	7	1.8	0.43
HDA1416B-330M	33	15.0	6	6	1.8	0.35
HDA1416B-470M	47	20.0	6	5	1.8	0.30

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Measurement Frequency for Inductance: 1kHz, 1V.
3. Electrical specifications at 25°C
4. Operating temperature: -40°C to +130°C (Include temp. Rise 40°C)
5. Storage temperature: -25°C to +85°C
6. All products are RoHS-compliant
7. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA1416C SERIES

FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

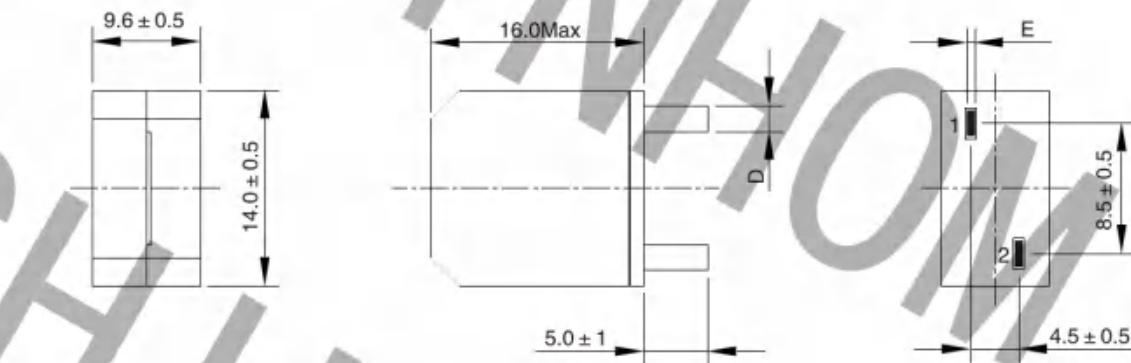
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



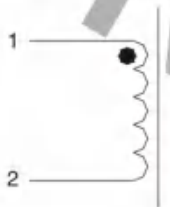
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Max	Irms A Max	D mm	E mm
HDA1416C-100M	10	15.0	15	7	1.8	0.35
HDA1416C-120M	12	16.0	13	7	1.8	0.35
HDA1416C-150M	15	12.0	11	8	1.8	0.43
HDA1416C-220M	22	16.0	10	7	1.8	0.35
HDA1416C-270M	27	20.0	9	5	1.8	0.30

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Winding



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Measurement Frequency for Inductance: 1kHz, 1V.
3. Electrical specifications at 25°C
4. Operating temperature: -40°C to +130°C (Include temp. Rise 40°C)
5. Storage temperature: -25°C to +85°C
6. All products are RoHS-compliant
7. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA1416D SERIES

FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

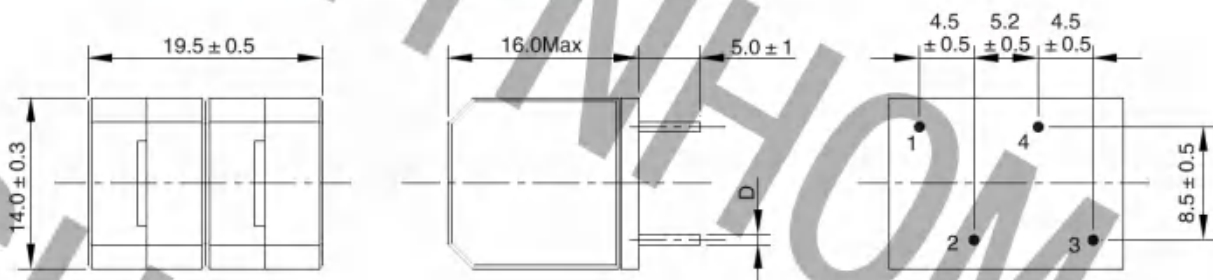
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Max	Irms A Max	D mm
HDA1416D-100M	10	15.0	11.5	7.0	0.8
HDA1416D-150M	15	18.0	10.0	6.0	0.8
HDA1416D-220M	22	20.0	8.0	5.5	0.7
HDA1416D-330M	33	28.0	5.5	5.0	0.65

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Winding

Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Measurement Frequency for Inductance: 1kHz, 1V.
3. Electrical specifications at 25°C
4. Operating temperature: -40°C to +130°C (Include temp. Rise 40°C)
5. Storage temperature: -25°C to +85°C
6. All products are RoHS-compliant
7. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA1516 SERIES

FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

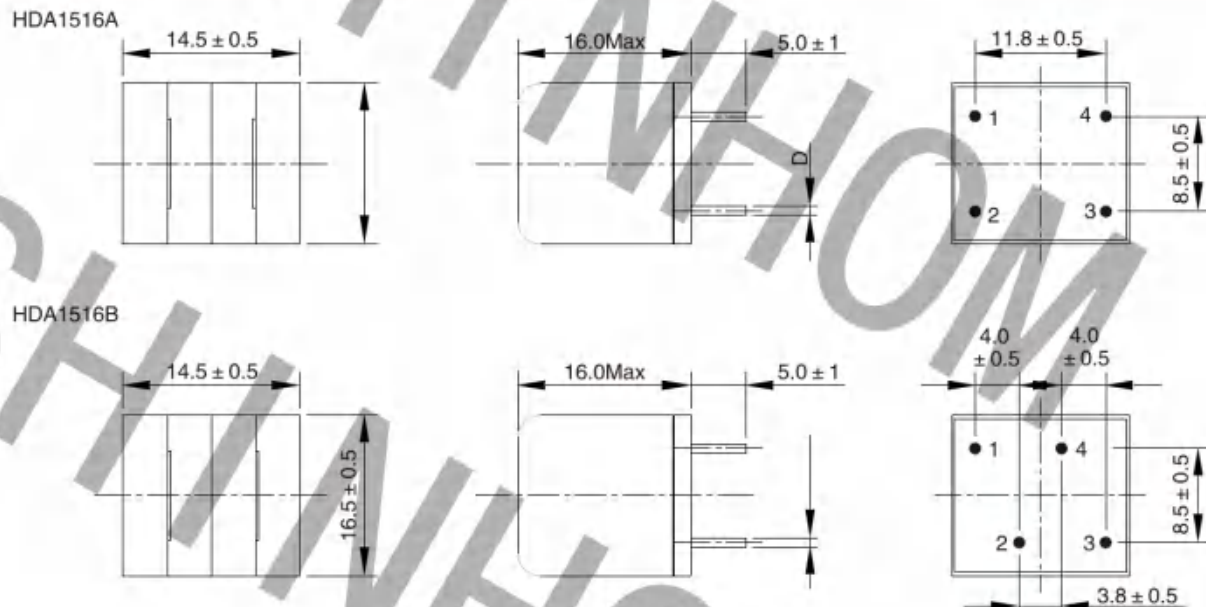
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



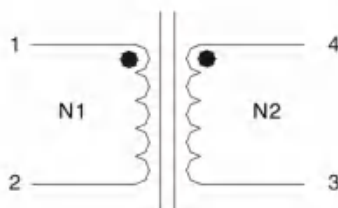
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Max	Irms A Max	D mm
HDA1516A-100M	10	11.0	11.0	7.0	0.8
HDA1516A-150M	15	16.5	8.4	5.4	0.7
HDA1516A-220M	22	18.0	6.2	5.1	0.7
HDA1516A-330M	33	22.0	5.5	4.5	0.6
HDA1516B-100M	10	11.0	11.0	7.0	0.8

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Winding



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Measurement Frequency for Inductance: 1kHz, 1V.
3. Electrical specifications at 25°C
4. Operating temperature: -40°C to +130°C (Include temp. Rise 40°C)
5. Storage temperature: -25°C to +85°C
6. All products are RoHS-compliant
7. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA1521A SERIES

FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

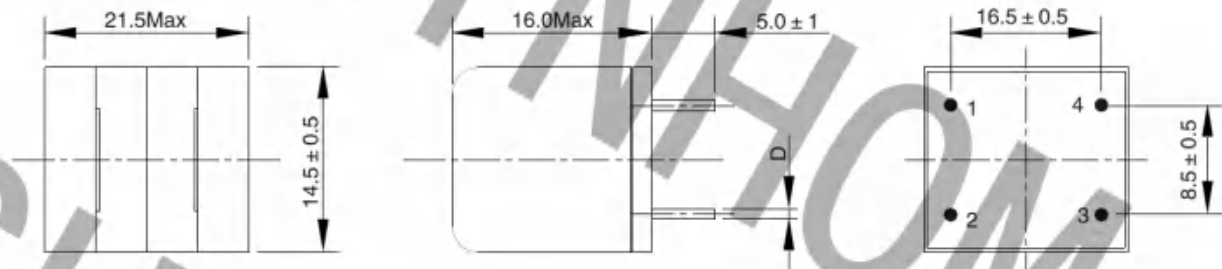
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



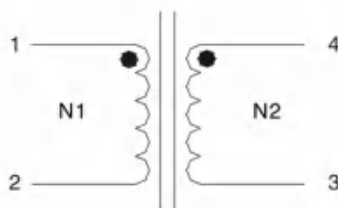
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Max	Irms A Max	D mm
HDA1521A-100M	10	11.0	14.0	7.7	0.9
HDA1521A-150M	15	16.0	12.5	6.4	0.8
HDA1521A-220M	22	26.0	10.0	5.5	0.7
HDA1521A-330M	33	33.0	8.5	5.0	0.7

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Winding



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Measurement Frequency for Inductance: 1kHz, 1V.
3. Electrical specifications at 25°C
4. Operating temperature: -40°C to +130°C (Include temp. Rise 40°C)
5. Storage temperature: -25°C to +85°C
6. All products are RoHS-compliant
7. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA1719A,1719B SERIES

FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

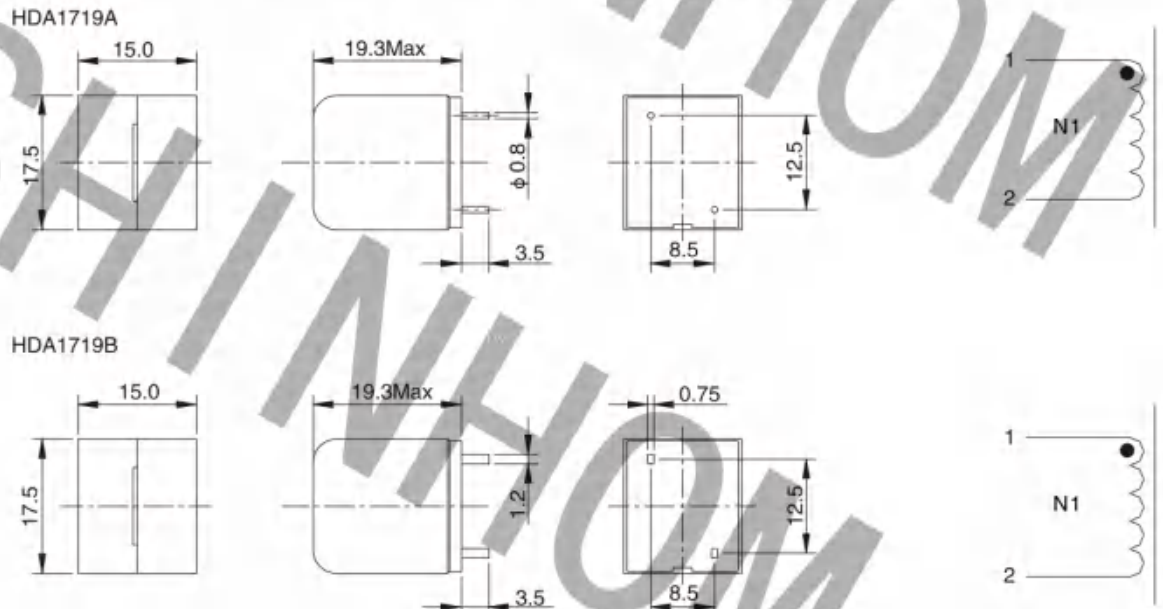
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 25\%$	DGR m $\Omega \pm 15\%$	Rated current A Max	Allowable current A Max
HDA1719A-100Y	10	7.0	22.0	10.0
HDA1719A-150Y	15	7.8	18.0	9.0
HDA1719A-220Y	22	15.0	14.0	6.5
HDA1719A-330Y	33	22.8	12.0	6.0
HDA1719A-470Y	47	34.0	8.0	5.0
HDA1719B-100Y	10	7.0	22.0	12.0
HDA1719B-150Y	15	7.8	18.0	11.0
HDA1719B-220Y	22	9.6	14.0	8.5
HDA1719B-330Y	33	11.3	12.0	8.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Electrical specifications at 25°C
3. All products are RoHS-compliant
4. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA1931A SERIES

FEATURES:

- Compact size using flat wire,DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

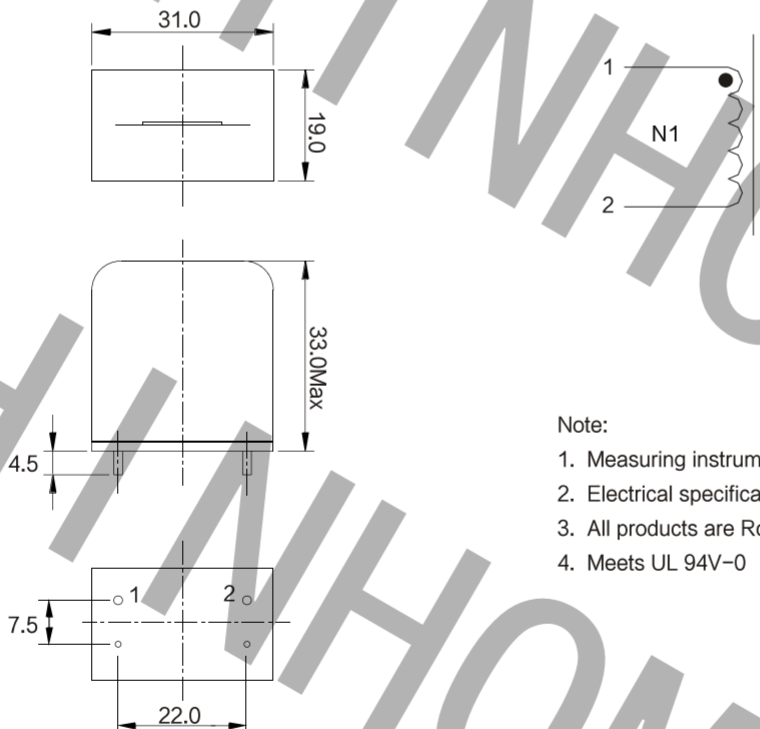
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω $\pm 15\%$	Rated current A Max	Allowable current A Max
HDA1931A-100M	10	4.0	50	18
HDA1931A-150M	15	4.5	40	15
HDA1931A-220M	22	5.6	31	12
HDA1931A-330M	33	8.2	25	10

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Note:

1. Measuring instrument: 3260B+3265B,CH502BC.
2. Electrical specifications at 25°C
3. All products are RoHS-compliant
4. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER HDA2023A SERIES

FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

APPLICATIONS:

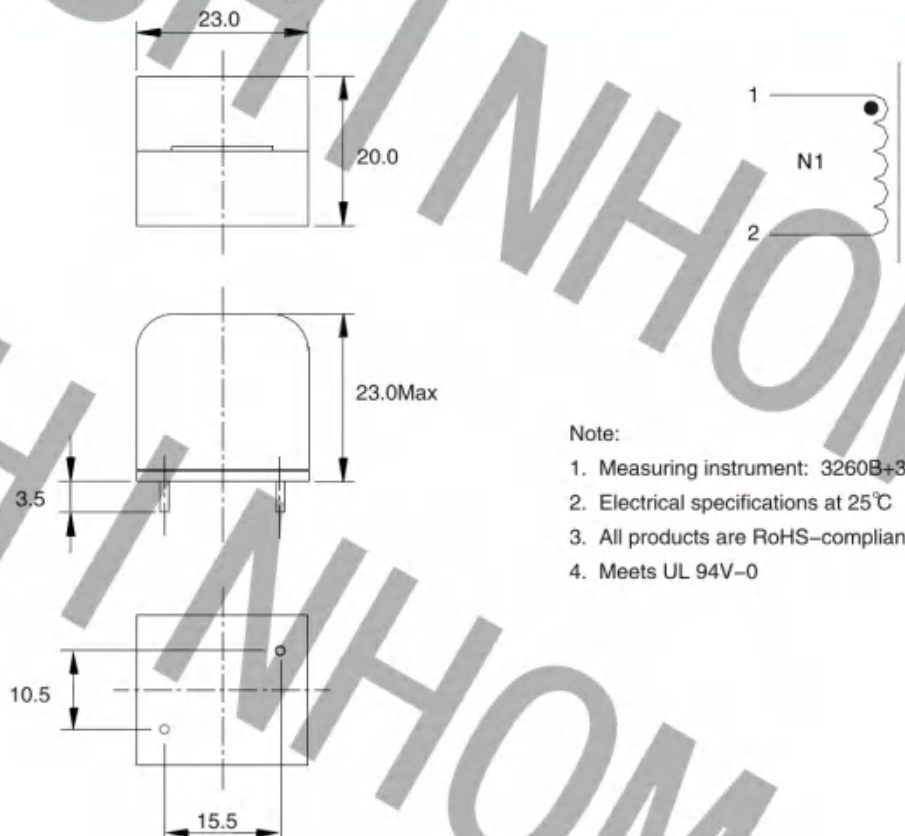
- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DGR m Ω $\pm 15\%$	Rated current A Max	Allowable current A Max
HDA2023A-100M	10	8.0	36	12
HDA2023A-220M	22	8.0	18.5	10
HDA2023A-330M	33	8.0	12	10

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Electrical specifications at 25°C
3. All products are RoHS-compliant
4. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA2023B SERIES



FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

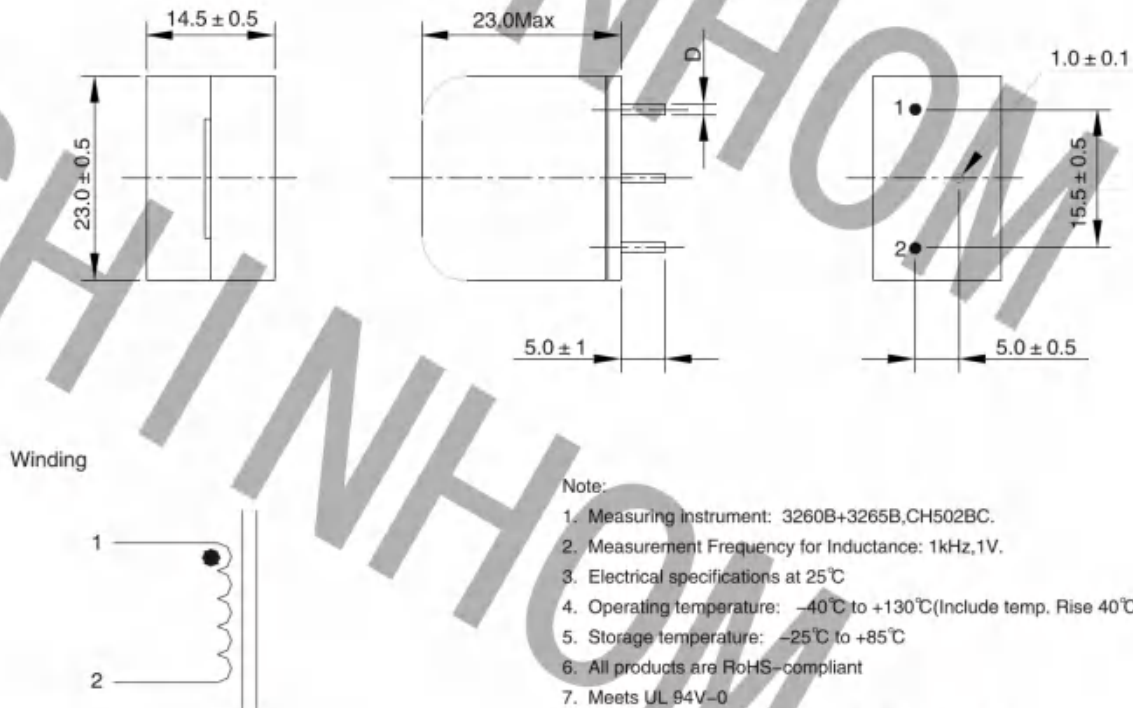
APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Max	Irms A Max	D mm
HDA2023B-100M	10	8.3	31.5	9.1	1.2
HDA2023B-120M	12	8.3	26.0	9.1	1.2
HDA2023B-150M	15	9.1	23.5	8.7	1.2
HDA2023B-180M	18	8.3	17.5	9.1	1.2
HDA2023B-220M	22	9.1	16.5	8.7	1.2
HDA2023B-330M	33	12.0	11.0	8.0	1.1

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDA3718H SERIES



FEATURES:

- Compact size using flat wire, DIP type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Wide frequency range: ~1MHz

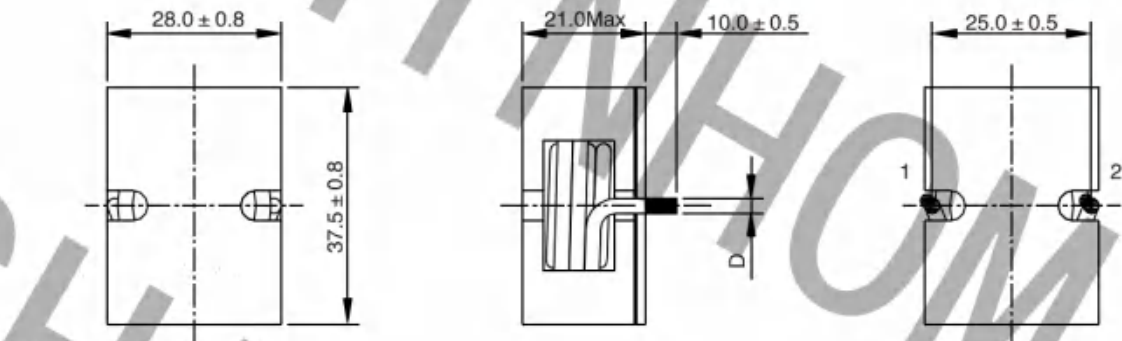
APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

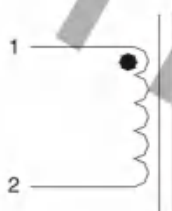
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω $\pm 25\%$	Rated DC Current A Max	Allowable Current A Max	D mm
HDA3718H-100M	10				2.4
HDA3718H-150M	15				2.2
HDA3718H-220M	22				2.0
HDA3718H-330M	33				1.8

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Winding



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Measurement Frequency for Inductance: 1kHz, 1V.
3. Electrical specifications at 25°C
4. Operating temperature: -40°C to +130°C (Include temp. Rise 40°C)
5. Storage temperature: -25°C to +85°C
6. All products are RoHS-compliant
7. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDAS0910 SERIES

FEATURES:

- Compact size using flat wire, SMD type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Space reduction is realized by 2 in 1 construction

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater



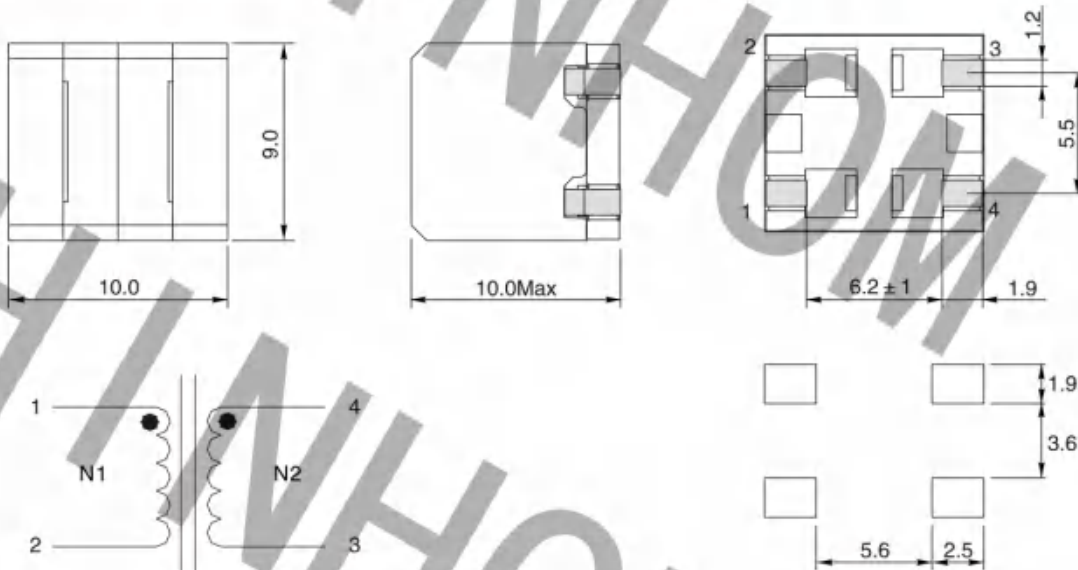
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat Adc	Irms Adc
HDAS0910-100M	10	22	5.0	3.9
HDAS0910-120M	12	25	4.3	3.4
HDAS0910-150M	15	44	4.1	2.8
HDAS0910-220M	22	52	3.2	2.5

Note:

1. Measurement Frequency for Inductance: 1kHz, 1V.
2. Isat: Inductance drift is within $\pm 25\%$ at the DC superimposed.
3. Irms: A rise in temperature of core surface is within 40°C .

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Electrical specifications at 25°C
3. Operating temperature: -40°C to $+130^\circ\text{C}$ (Include temp. Rise 40°C)
4. Storage temperature: -25°C to $+85^\circ\text{C}$
3. All products are RoHS-compliant
4. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER

HDAS1013 SERIES



FEATURES:

- Compact size using flat wire, SMD type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Space reduction is realized by 2 in 1 construction

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

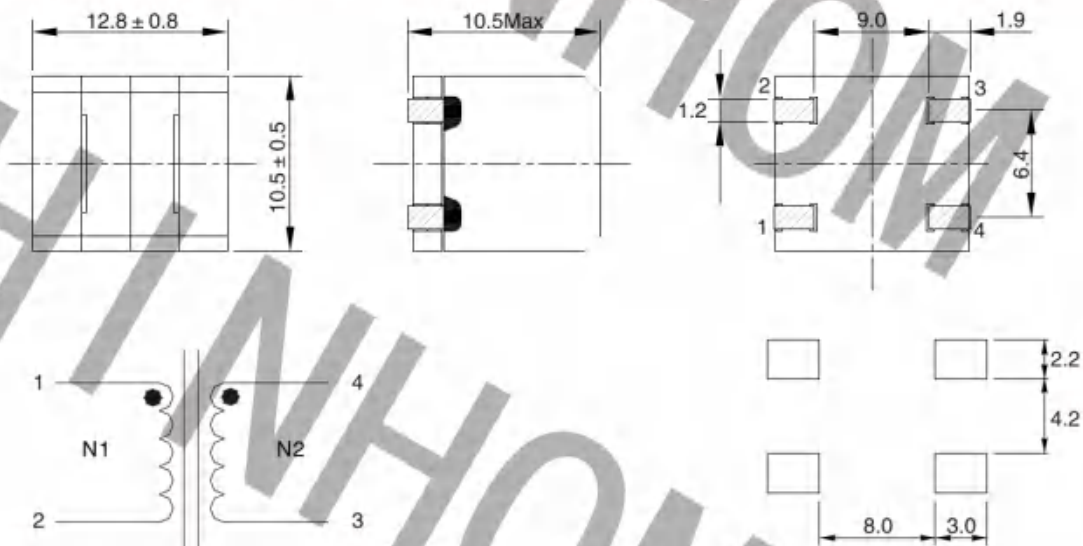
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Max	Irms A Max
HDAS1013-3R3M	3.3	11.0	12.0	5.1
HDAS1013-8R2M	8.2	16.0	7.5	4.4
HDAS1013-100M	10	18.0	7.1	4.2
HDAS1013-120M	12	20.0	6.0	4.0
HDAS1013-150M	15	23.0	5.3	3.8
HDAS1013-180M	18	23.0	4.6	3.8
HDAS1013-220M	22	38.0	4.3	3.0

Note:

1. Measurement Frequency for Inductance: 100kHz, 1V.
2. Isat: Inductance drift is within -30% at the DC superimposed.
3. I rms: A rise in temperature of core surface is within 40°C .

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Electrical specifications at 25°C
3. Operating temperature: -55°C to $+125^{\circ}\text{C}$ (Include temp. Rise 40°C)
4. Storage temperature: -25°C to $+85^{\circ}\text{C}$
3. All products are RoHS-compliant
4. Meets UL 94V-0

All specifications subject to change without notice.

POWER INDUCTOR FOR DIGITAL AMPLIFIER HDAS1313 SERIES



FEATURES:

- Compact size using flat wire, SMD type
- Low radiation noise by magnetically shielded construction
- Super high current, Low resistance
- The optimal design realizes high quality sound and low distortion
- Space reduction is realized by 2 in 1 construction

APPLICATIONS:

- Suitable as choke for digital amp
- Car audio
- LCD and PDP TV
- 5.1ch Home theater

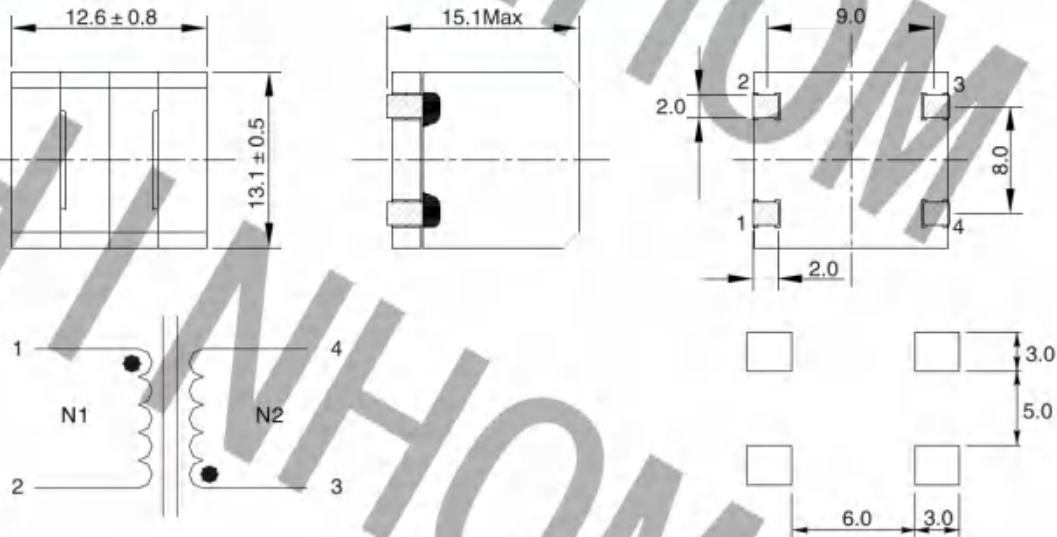
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L uH $\pm 20\%$	DCR m Ω Max	Isat A Typ.	Irms A Typ.
HDAS1313-4R7M	4.7	5.4	17.0	11.6
HDAS1313-5R6M	5.6	6.3	14.5	11.0
HDAS1313-8R2M	8.2	9.6	12.5	7.8
HDAS1313-100M	10	10.5	10.5	7.4
HDAS1313-120M	12	17.6	10.0	5.8
HDAS1313-150M	15	19.0	9.0	5.6
HDAS1313-180M	18	20.2	8.3	5.4
HDAS1313-220M	22	21.5	7.0	5.2

Note:

1. Measurement Frequency for Inductance: 1kHz, 1V.
2. Isat: Inductance drift is within -30% at the DC superimposed.
3. Irms: A rise in temperature of core surface is within 40°C .

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

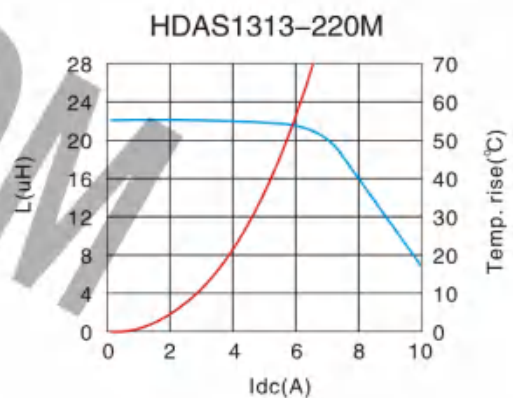
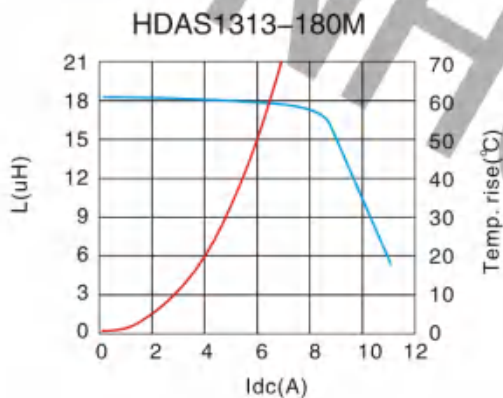
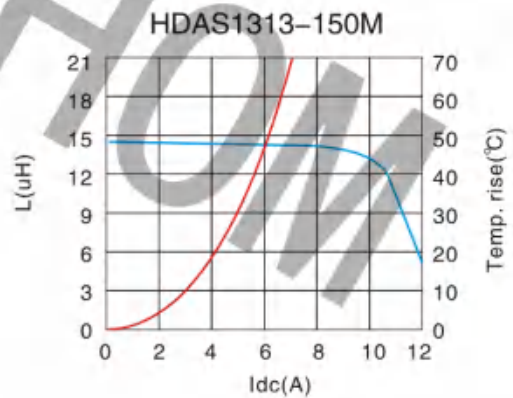
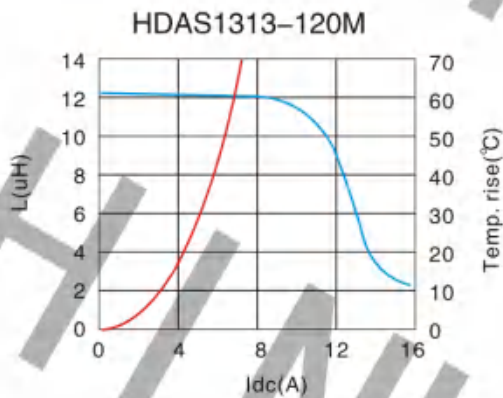
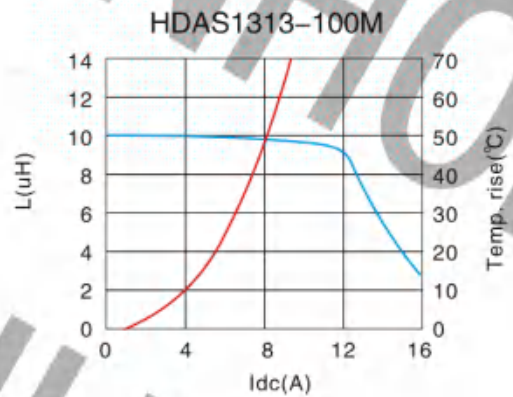
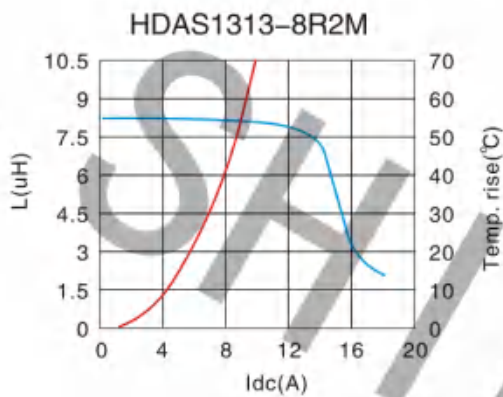
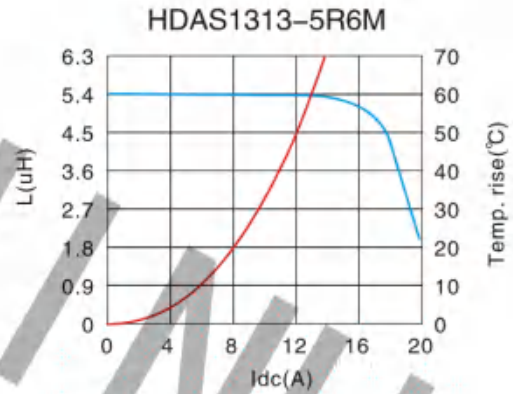
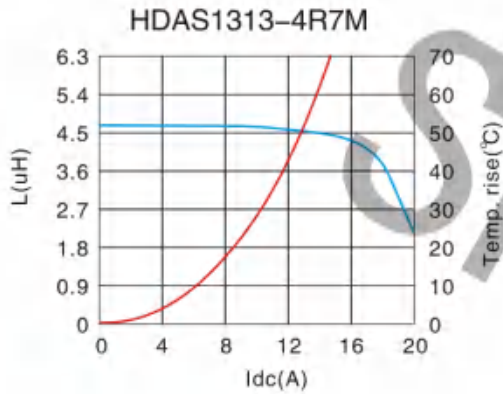


Note:

1. Measuring instrument: 3260B+3265B, CH502BC.
2. Electrical specifications at 25°C
3. Operating temperature: -55°C to $+125^\circ\text{C}$ (Include temp. Rise 40°C)
4. Storage temperature: -25°C to $+85^\circ\text{C}$
3. All products are RoHS-compliant
4. Meets UL 94V-0

All specifications subject to change without notice.

PERFORMANCE CURVE:





POWER INDUCTORS FOR CLASS-D AMPLIFIER

HDE1219,1623 SERIES

FEATURES:

- Excellent weldability and resistance
- Low radiation noise by special magnetically shielded structure
- Low resistance, high current
- Wide frequency range
- The optimal design realizes high quality sound and low distortion

APPLICATIONS:

- Suitable as choke digital amp, Car audio, LCD and PDP TV, 5.1ch Home theater, etc.

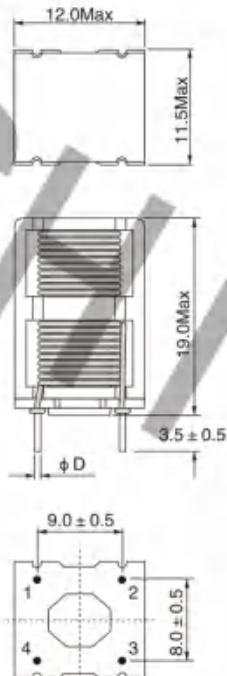
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (μH) $\pm 20\%$	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (m Ω)	DCR Max. (m Ω)	ϕ D
HDE1219-100M	10.0	3.5	8.0	27.6	37.0	0.7
HDE1219-160M	15.0	2.7	6.0	32.2	46.0	0.7
HDE1219-220M	20.0	2.4	5.0	45.4	60.0	0.7
HDE1623-100M	10.0	6.4	15.0	9.0	12.0	0.9
HDE1623-150M	15.0	5.2	11.0	17.6	22.6	0.7
HDE1623-220M	22.0	3.8	10.0	22.7	31.0	0.65

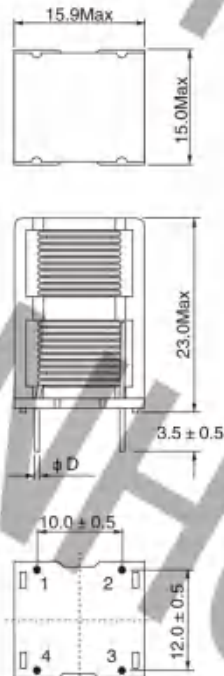
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)

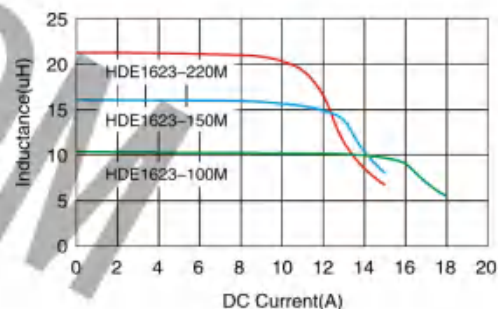
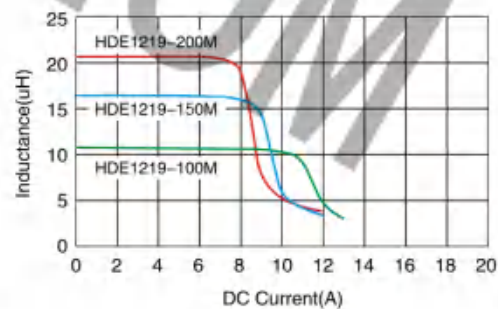
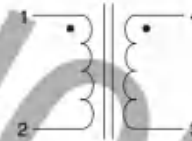
HDE1219



HDE1623



Winding



- Test Frequency : 100KHz / 0.25Vdc@25°C
- Heat Rated Current (Irms) will cause the coil temperature rise
- Heat rating current : A rise in temperature of core surface is within 40°C
- DC saturation allowable current: Value of inductance decrease within -25%
- Operating Temperature & Storage Temperature: -25°C~105°C