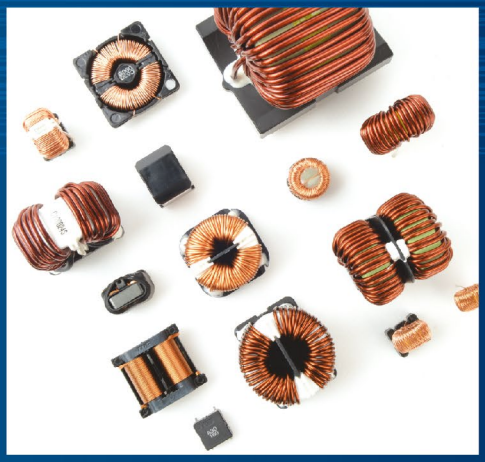
Create The Future By Technology Innovation

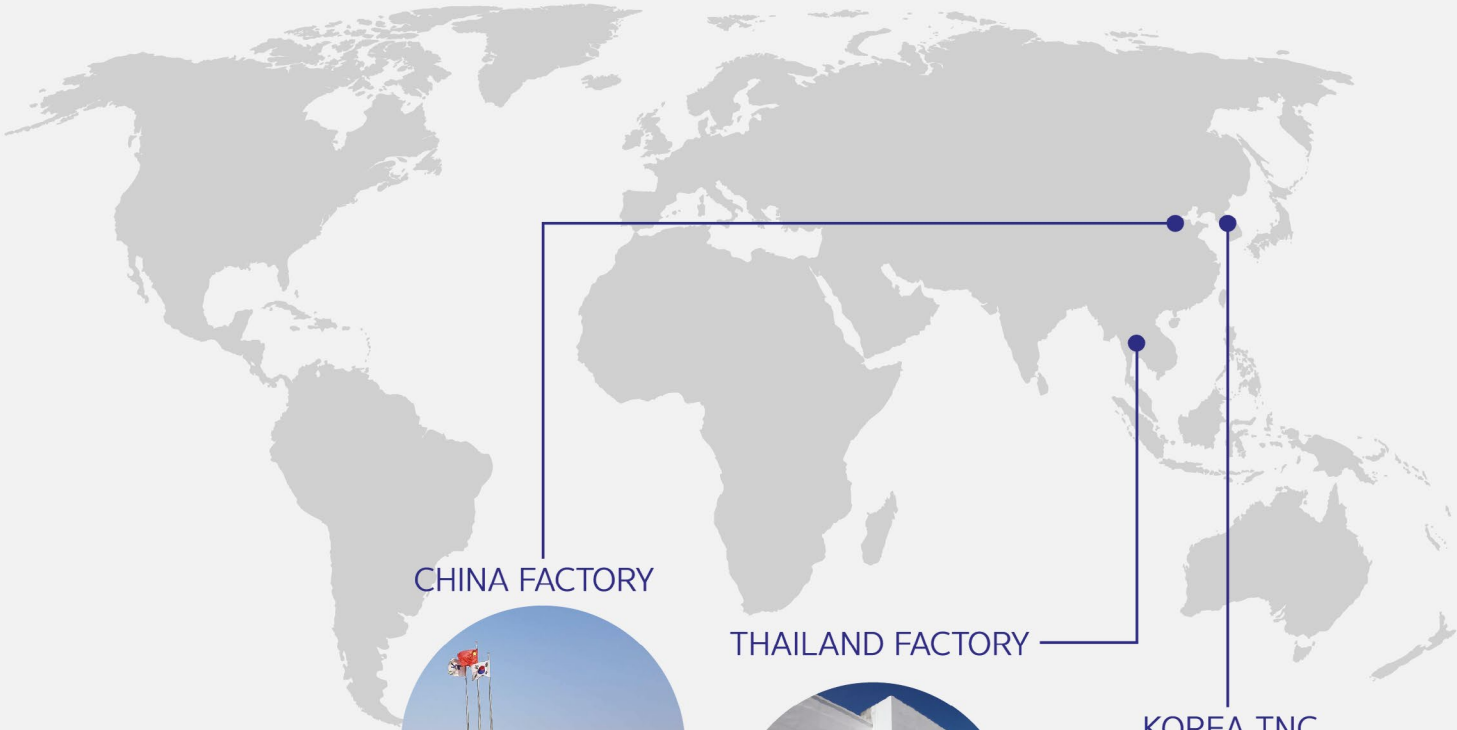
2019
Product Catalogue




TNC

TNC



CHINA FACTORY

THAILAND FACTORY

KOREA TNC

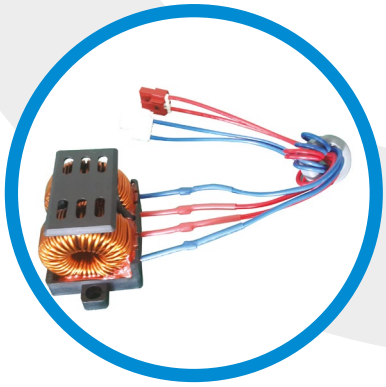
Expert in developing components to filter electromagnetic waves

FILTER ASS'Y
AC/DC 1A ~ 200A

LINE FILTER
TROIDAL 7Φ ~ 100Φ

TNC Co., Ltd.

FEEDTHROUGH
FILM CAPACITORS
10A ~ 500A

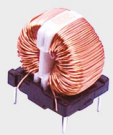
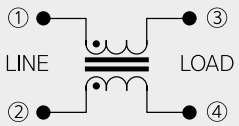
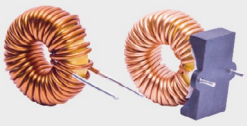
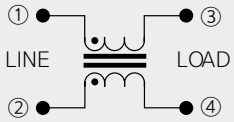


REACTOR
AC/DC 1A ~ 100A

COIL ASS'Y
AC/DC 1A ~ 30A

LINE FILTER

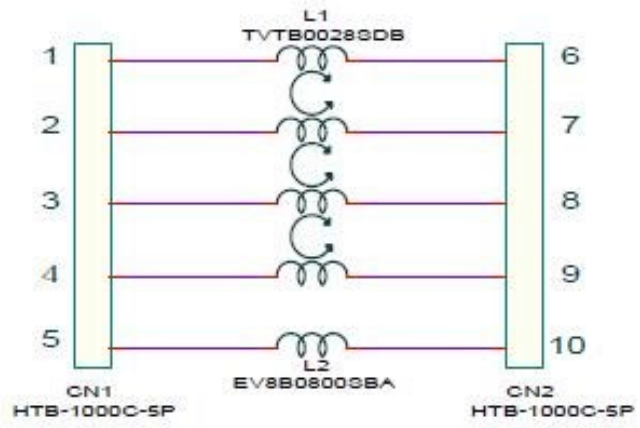
PCB mounting type for EMI measure part which can apply on electric product.
We have various size from 7Φ to 100Φ, and also produce and design toroidal coil.
Application: LED light, adapter, TV, solar inverter…

COMMON COIL		ToROIDAL 7Φ ~ 100Φ CURRENT 0.5A ~ 200A	
NORMAL COIL		ToROIDAL 7Φ ~ 1000Φ CURRENT 0.5A ~ 200A	
AUTO COIL		Rectangular · CURRENT 0.5A ~ 5A	
AUTO MOTIVE		· · CURRENT 1A ~ 200A	

FILTER ASS'Y

<TPBA-B0-003>

<CIRCUIT DIAGRAM>



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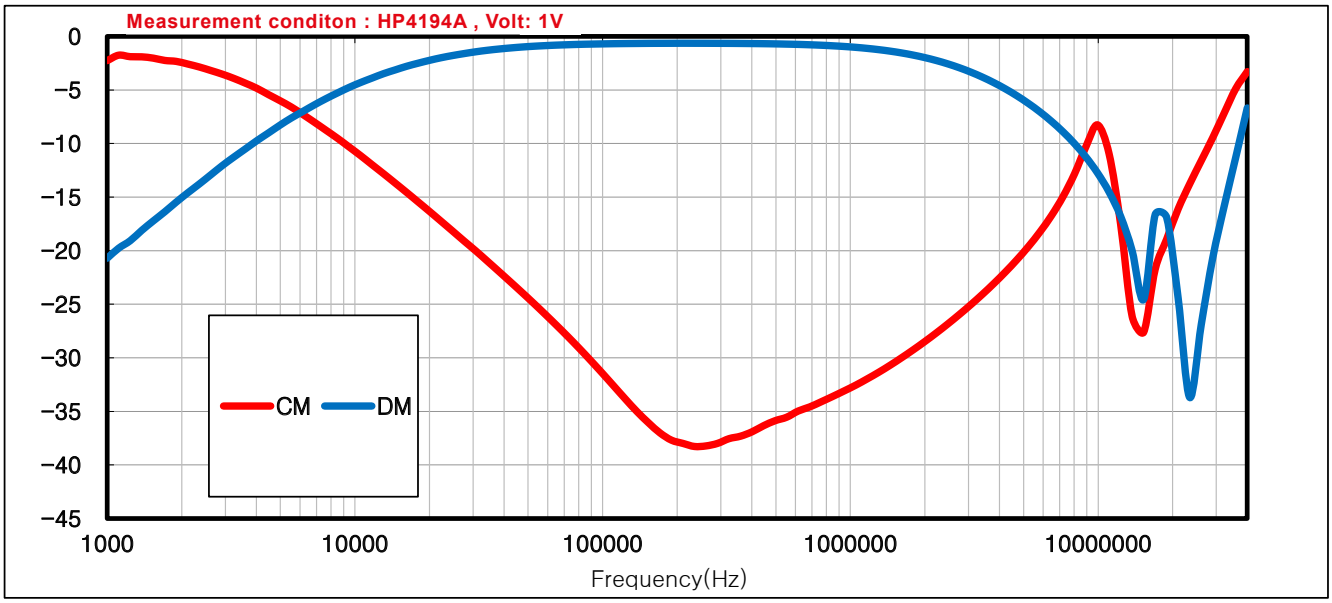


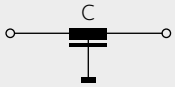
FEEDTHROUGH FILM CAPACITOR

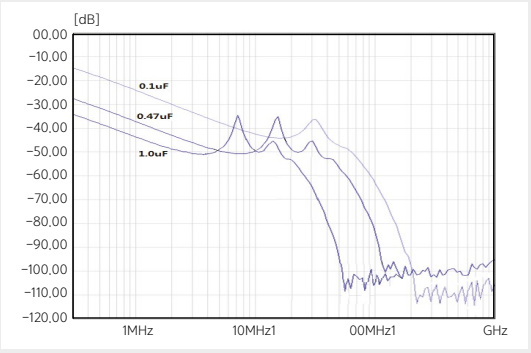
Using L/C unique characteristics and applicated machine's impedance gap,
its a filter which pass and block on specific band and frequency. .
Application: EMP filter, shield room, medical, SMPS

<FLS Series>

Rated Voltage: DC 100V ~ 1000Vmax,
AC 100V ~ 440Vmax
Rated Current: 10A ~ 500A
Capacitance: 0.01㎌ ~ 10㎌

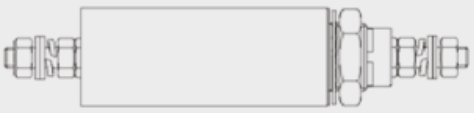
Typical electrical schematic



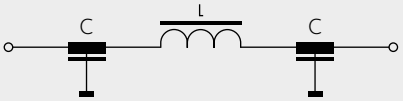


<FPC Series>

Rated Voltage: DC 100V ~ 600Vmax,
AC 100V ~ 250Vmax
Rated Current: 20A ~ 500A
Capacitance: 0.01㎌ ~ 10㎌



Typical electrical schematic

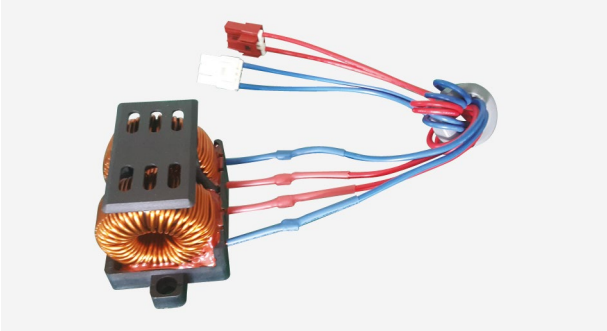


REACTOR

By using powder magnetic core it has less loss on high frequency, compared to silicone steel reactor.
And also have better temperature stability than ferrite core.
We can produce and supply best service(solutions for) on noise, efficiency, size, weight, and reliability.
Application: solar inverter, ESS, Refrigerator...

<AHK740-Series>

<AHK740-1-A5B00C>



<NVS467-Series>

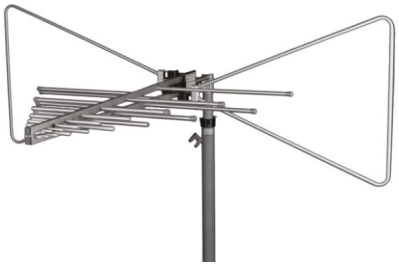
AHK740-2-B0800C

3m EMI Compact Chamber

(주)티엔씨에서는 전자파 장해(EMI)중 전도노이즈(CE), 방사노이즈(RE)
대책에 대한 무료 서비스를 실시하고 있습니다.
당사에서 생산되는 우수한 품질의 LINE FILTER와 EMI대책 전문 기술진을
바탕으로 완벽한 해결책을 제시해 드리겠습니다.

<보유장비>
- R&S ESR3 EMI TEST RECEIVER
- R&S LISN
- SCHWARZBECK Biconic
  Logarithmic Periodic Antennas (Hybrid)

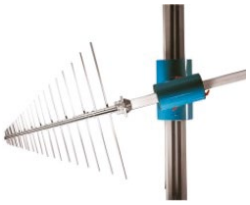
<전원사양>
- AC 0~300V, 50A, 50Hz, 60Hz
- DC 0~450V, 100A



Automotive EMI Chamber

<보유장비>

- R&S ESR7 EMI TEST RECEIVER
- R&S, SCHWARZBECK Automotive LISN 6
- FCC Current Probe
- R&S ROD Antenna
- SCHWARZBECK Biconical Antenna
- SCHWARZBECK Log-Periodic Broadband Antenna
- SCHWARZBECK Log-Periodic Broadband Antenna
- PONTIS High Speed CAN 2, LIN 1



<전원사양>

- DC 0~600V, 0~150A

Common

SMD 8Φ, 10Φ-SERIES

■ PRODUCT NAME MEANING

□□0□□□□□□□□

C:Common, P:Pair
V:Vertical, H:Horizontal
Core Size(ex.A : 8Φ, 0 : 10Φ)
Rated Current(ex.05 : 0.5A)
Inductance(ex.180 : 18.0mH)
ui(non : 5500, S : 10000)
Base Type
Special

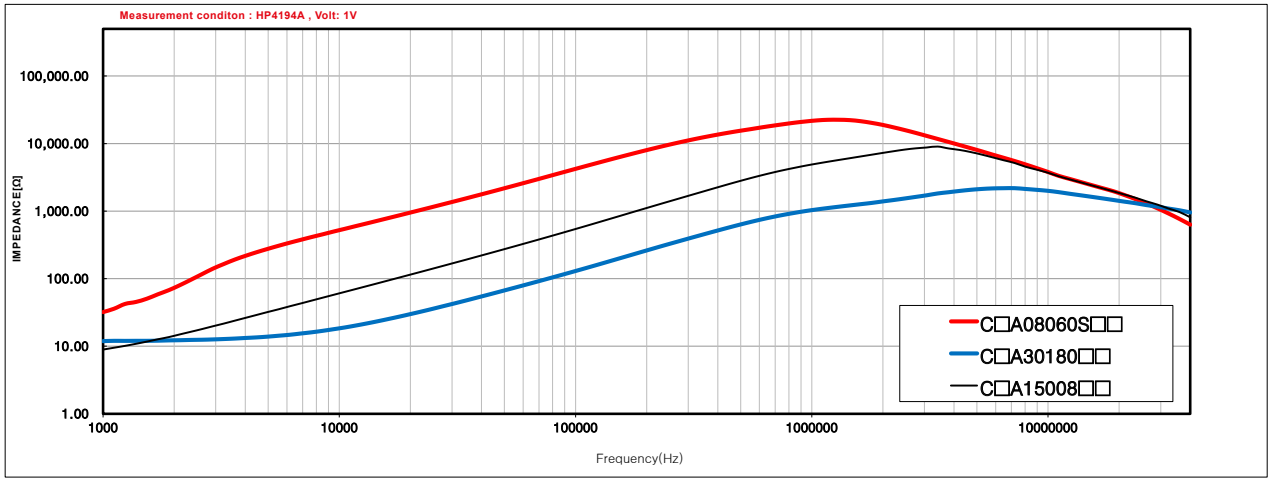
■ PART NUMBER AND SPECIFICATIONS

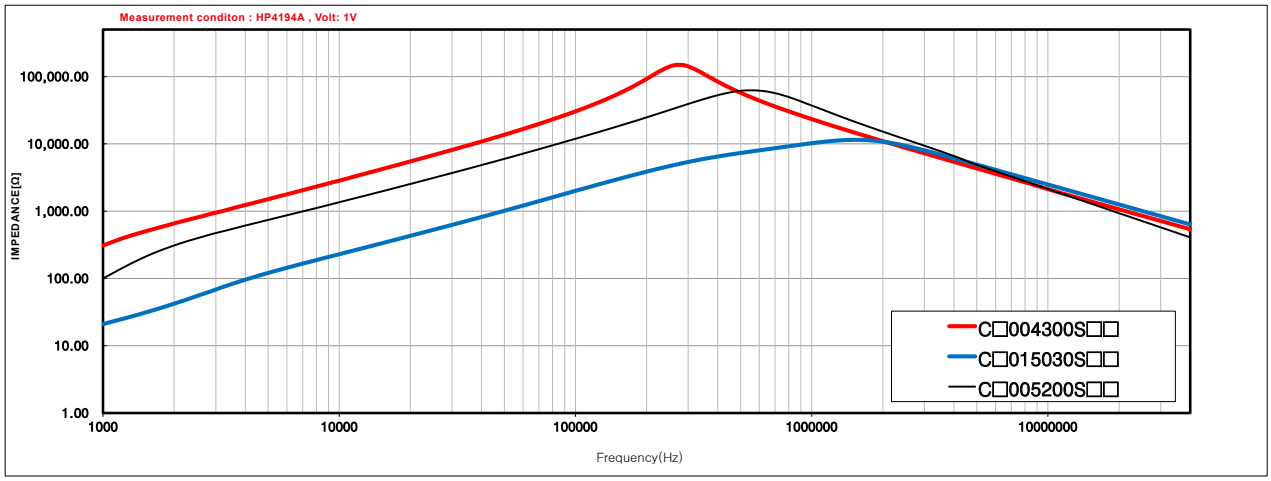
Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□A08060S□□	0.8	6.00	390	50
C□A15008□□	1.5	0.80	125	50
C□A20450□□	2.0	0.45	67	50
C□A30180□□	3.0	0.18	50	50
C□004300S□□	0.4	30.00	1235	300
C□005200S□□	0.5	20.00	1194	300
C□015030S□□	1.5	3.00	96	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available

■ IMPEDANCE CHARACTERISTIC GRAPH





For safety and the proper usage, you are requested to approve our product specification
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■ SHAPE AND DIMENSION

Fig.1 CHAM- SERIES

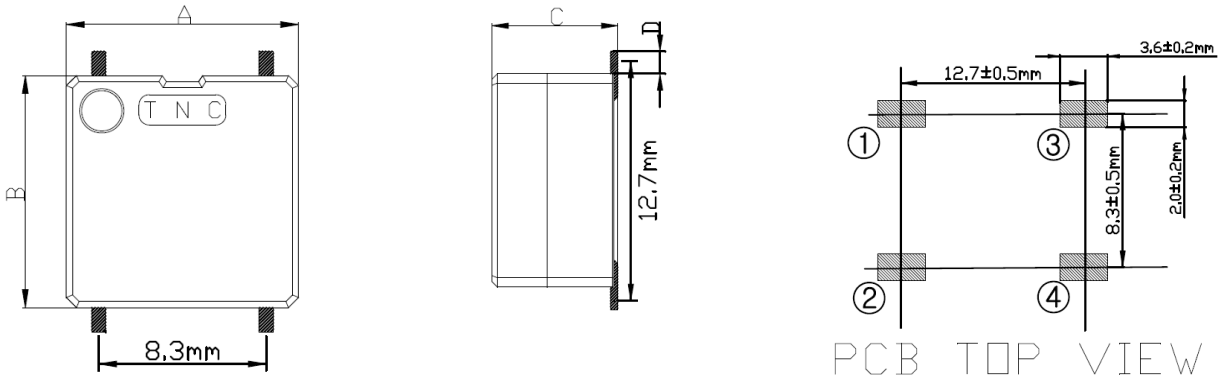
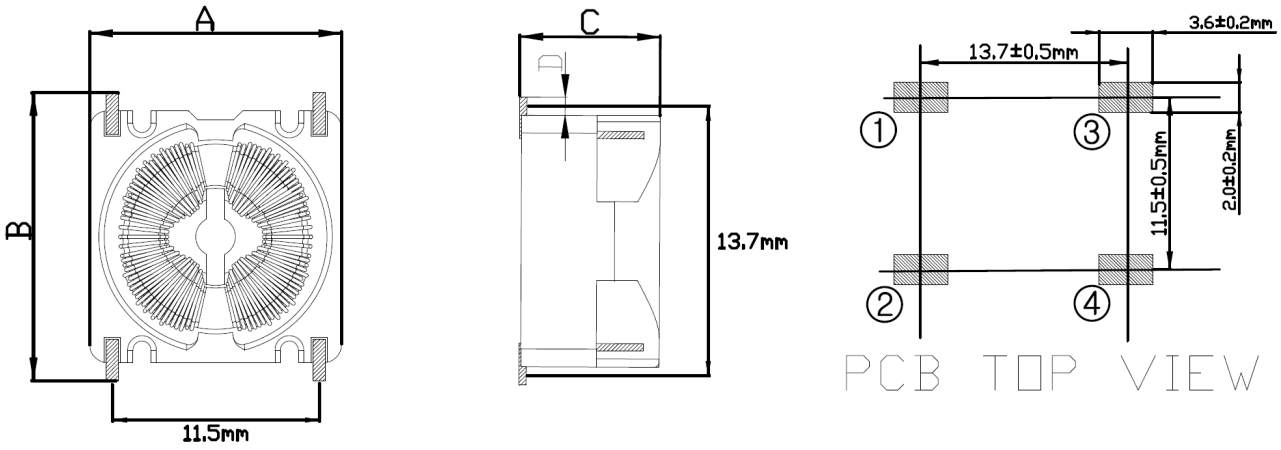


Fig.2 CH0M- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CHAM(FIG.1)	12.5	12.5	7.5	1.2±0.5
CH0M(FIG.1)	14.5	16.5	8.1	1.0±0.5

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Common

6Φ, 8Φ-SERIES

■ PRODUCT NAME MEANING

□□C,A□□□□□□□□

- C:Common, P:Pair
- V:Vertical, H:Horizontal
- Core Size(ex.A : 8Φ, 0 : 10Φ)
- Rated Current(ex.05 : 0.5A)
- Inductance(ex.180 : 18.0mH)
- ui(non : 5500, S : 10000)
- Base Type
- Special

■ PART NUMBER AND SPECIFICATIONS

*AC용

Part No.	Rated current(A)	Inductance (uH)	DC R (mΩ)	Rated Voltage(V)
C□C1090US□□	1.0	900	326	300
C□C2020US□□	2.0	200	87	300
C□A1504UN□□	1.5	40	76	300
C□A3014US□□	3.0	140	49	300
C□A30180□□	3.0	180	58	300
C□A6003U□□	6.0	30	15	300

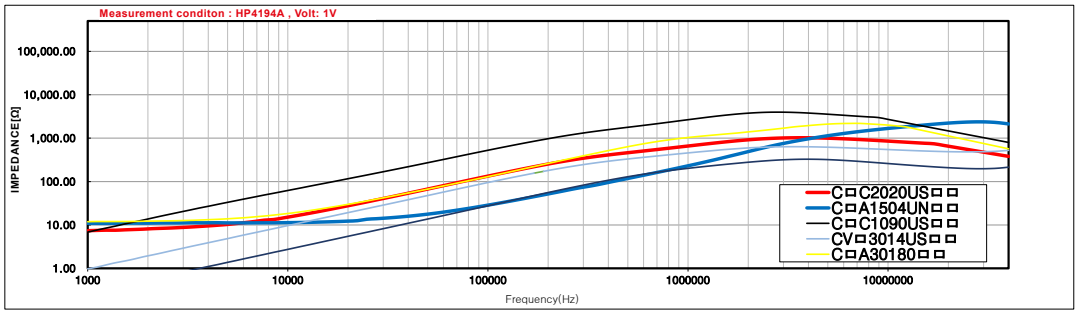
*DC용

Part No.	Rated current(A)	Inductance (uH)	DC R (mΩ)	Rated Voltage(V)
C□A05080S□□	0.5	8000	513	50
P□A20290□□	2.0	290	71	50
P□A30180□□	3.0	180	65	50
P□A35023N□□	3.5	23	36	50
P□A50200N□□	5.0	200	23	50
P□A60120□□	6.0	120	19	50
P□A60160□□	6.0	160	21	50
C□A6011RN□□	6.0	11	16	50
P□A70050□□	7.0	50	12	50
P□A80030□□	8.0	30	12	50
P□AA0030□□	10.0	30	9	50

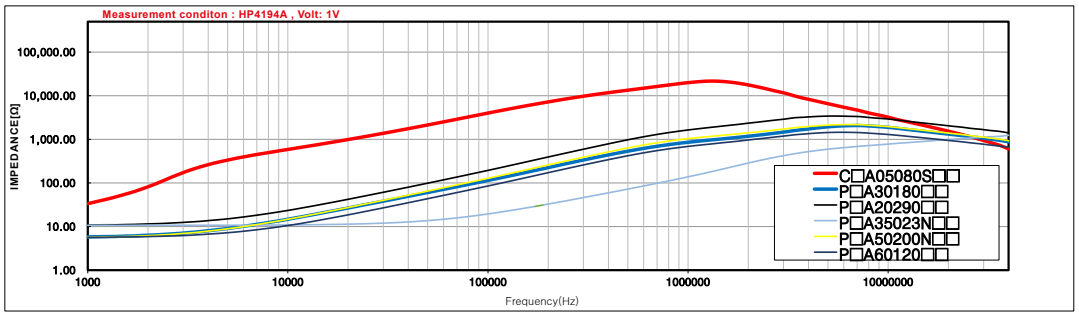
Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

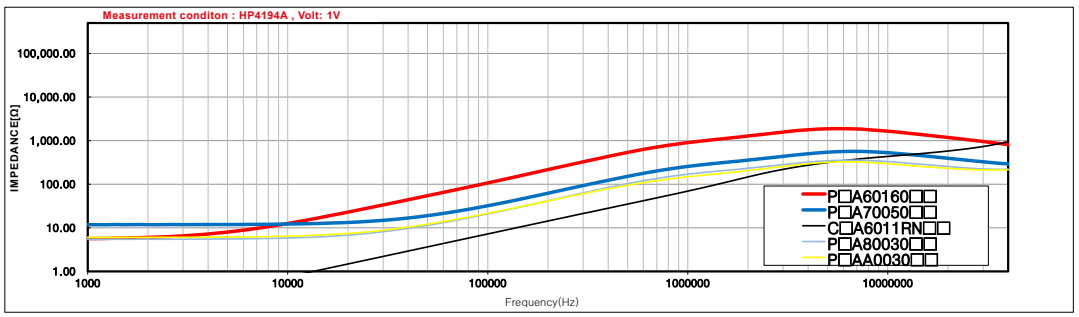
- UL94V-0 certified resin used - Pb-free solder used - RoHS free - Custom made Products are also available - Halogen free available

*AC용



*DC용





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■ SHAPE AND DIMENSION

Fig.1 CVCA- SERIES

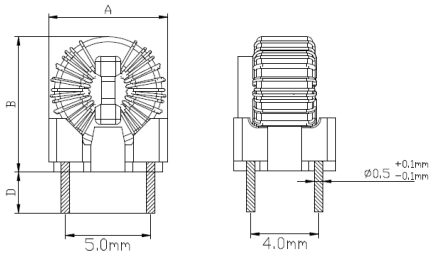


Fig.2 CVAB- SERIES

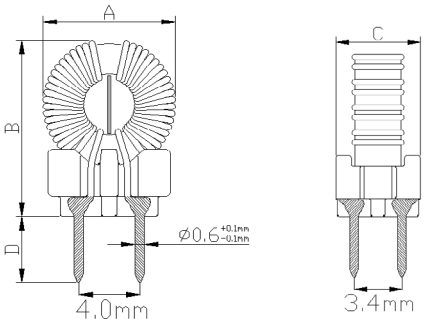


Fig.3 CHAA- SERIES

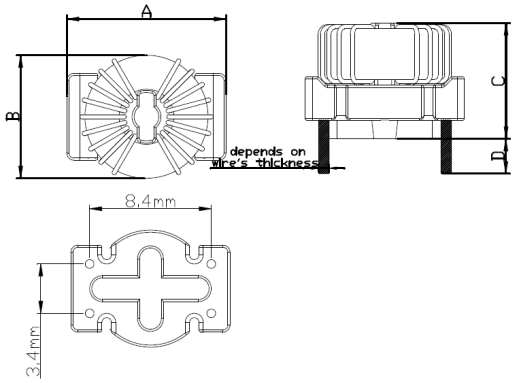


Fig.4 PVAJ- SERIES

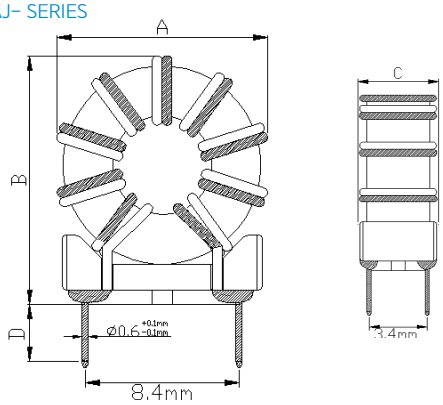


Fig.5 PVAC- SERIES

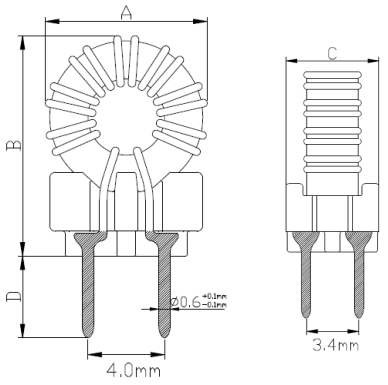


Fig.6 PVAA- SERIES

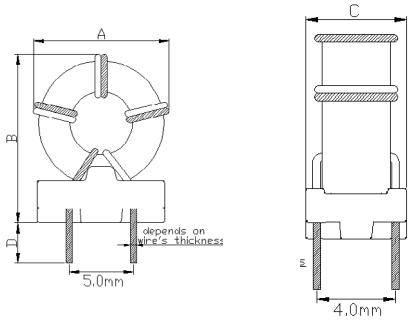
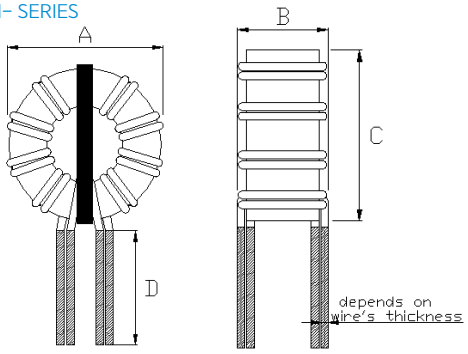


Fig.7 PVAN- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CVCA(FIG.1)	7.5	8.5	6.5	2.3±1.0
CVAB(FIG.2)	10.0	14.0	7.0	4.0±1.0
CHAA(FIG.3)	11.5	11.0	9.0	1.1±1.0
PVAJ(FIG.4)	12.0	12.0	7.0	4.0±1.0
PVAC(FIG.5)	11.5	13.5	8.0	4.0±1.0
PVAA(FIG.6)	10.0	12.0	8.0	4.0±1.0
PVAN(FIG.7)	11.0	6.0	11.0	8.0±2.0

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Common

10Φ-SERIES



■ PRODUCT NAME MEANING

□□0□□□□□□□□

C:Common, P:Pair
V:Vertical, H:Horizontal
Core Size(ex.0 : 10Φ)
Rated Current(ex.05 : 0.5A)
Inductance(ex.180 : 18.0mH)
ui(non : 5500, S : 10000)
Base Type
Special

■ PART NUMBER AND SPECIFICATIONS

*AC용

Part No.	Rated current(A)	Inductance (mH)	DC R (mΩ)	Rated Voltage(V)
C□003400S□□	0.3	40.0	1100	300
C□004300S□□	0.4	30.0	1002	300
C□005200S□□	0.5	20.0	1194	300
C□008090S□□	0.8	9.0	264	300
C□015030S□□	1.5	3.0	96	300
C□025010S□□	2.5	1.0	36	300
C□030450S□□	3.0	0.450	30	300
C□03006UN□□	3.0	0.060	37	300
C□040031N□□	4.0	0.031	23	300
C□050031N□□	5.0	0.031	24	300

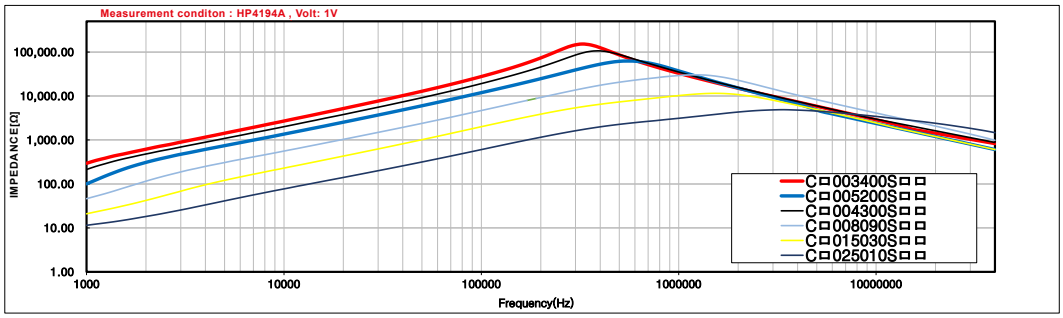
*DC용

Part No.	Rated current(A)	Induct-ance(mH)	DC R (mΩ)	Rated Voltage(V)
P□015015S□□	1.5	1.5	134	50
P□035031N□□	3.5	0.031	23	50
C□040031N□□	4.0	0.031	23	50
P□050031N□□	5.0	0.031	24	50
P□55031N□□	5.5	0.031	23	50
P□065031N□□	6.5	0.031	18	50

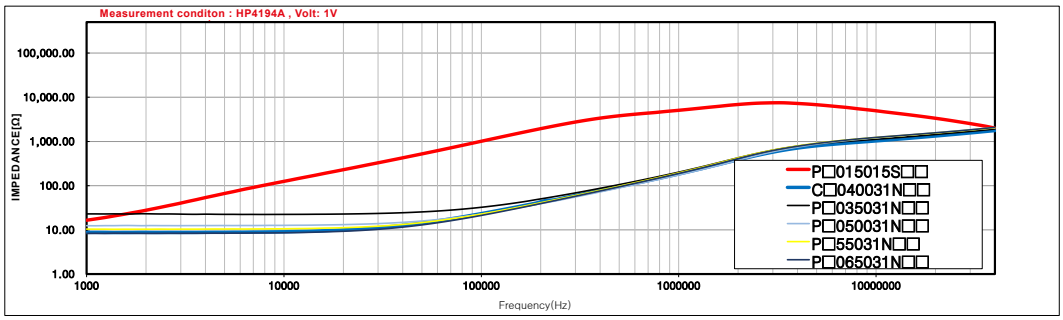
Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

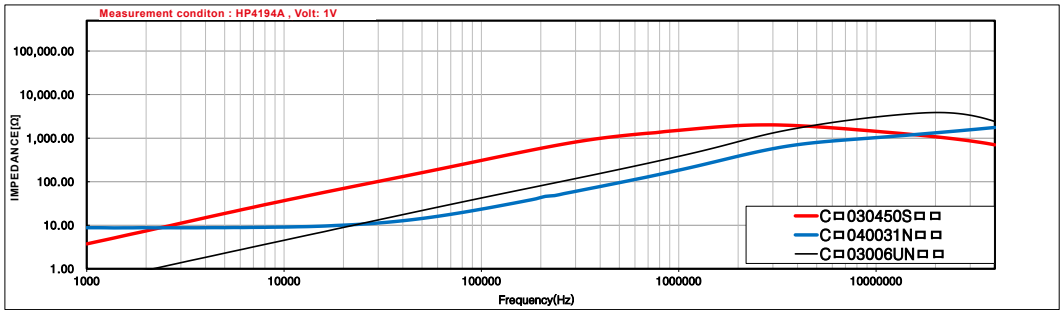
- UL94V-0 certified resin used - Pb-free solder used - RoHS free - Custom made Products are also available - Halogen free available

*AC용



*DC용





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■ SHAPE AND DIMENSION

Fig.1 CV0J- SERIES

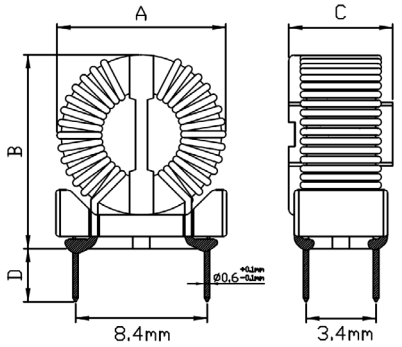


Fig.2 CV0D- SERIES

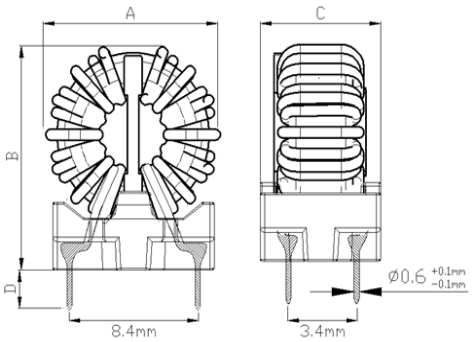


Fig.3 CV0F- SERIES

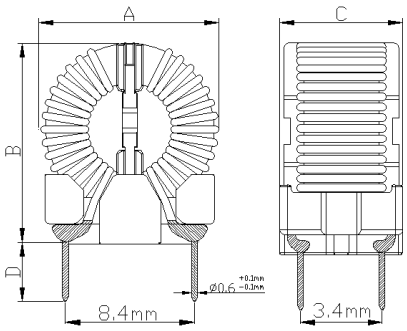


Fig.4 CH0B- SERIES

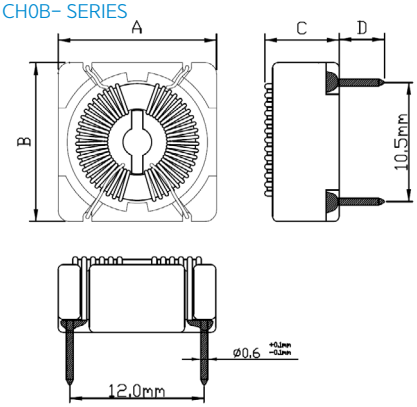


Fig.5 CH0D- SERIES

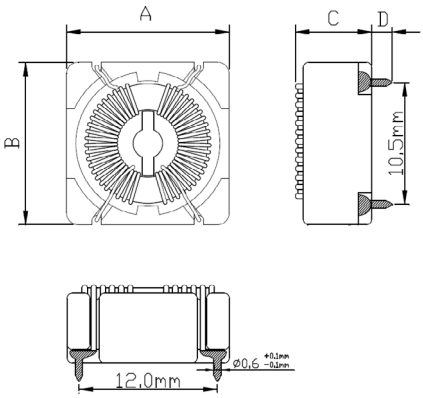


Fig.6 PV0E- SERIES

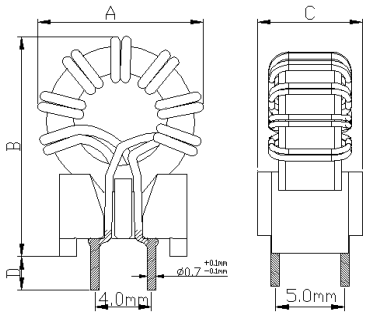


Fig.7 PV0J- SERIES

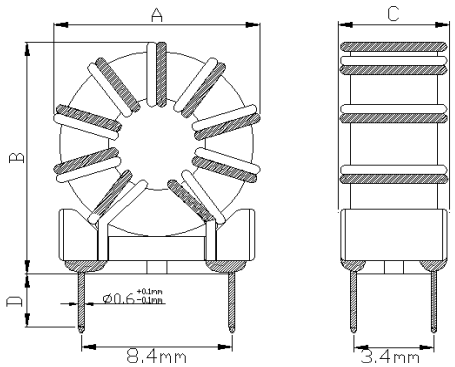
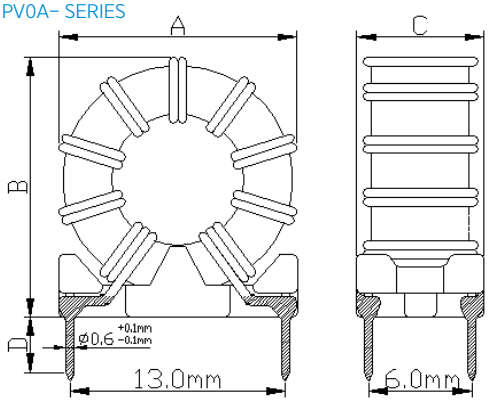


Fig.8 PV0A- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CV0J (FIG.1)	14.0	16.0	10.0	4.0±1.0 (Not include solder fillet)
CV0D (FIG.2)	14.0	16.0	10.0	4.0±1.0 (Not include solder fillet)
CV0F (FIG.3)	13.0	15.0	10.0	4.0±1.0 (Not include solder fillet)
CH0B (FIG.4)	14.5	14.5	8.0	4.0±1.0 (Not include solder fillet)
CH0D (FIG.5)	14.5	14.5	8.0	1.0±0.5 (Not include solder fillet)
PV0E (FIG.6)	13.0	17.0	9.0	4.0±1.0 (Not include solder fillet)
PV0J (FIG.7)	14.0	16.0	9.0	4.0±1.0 (Not include solder fillet)
PV0A (FIG.8)	17.0	15.0	10.0	4.0±1.0 (Not include solder fillet)

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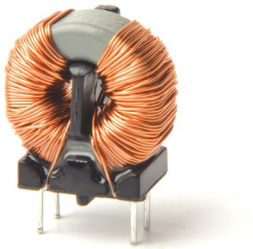
Common

13Φ-SERIES



■ PRODUCT NAME MEANING

□□3□□□□□□□□

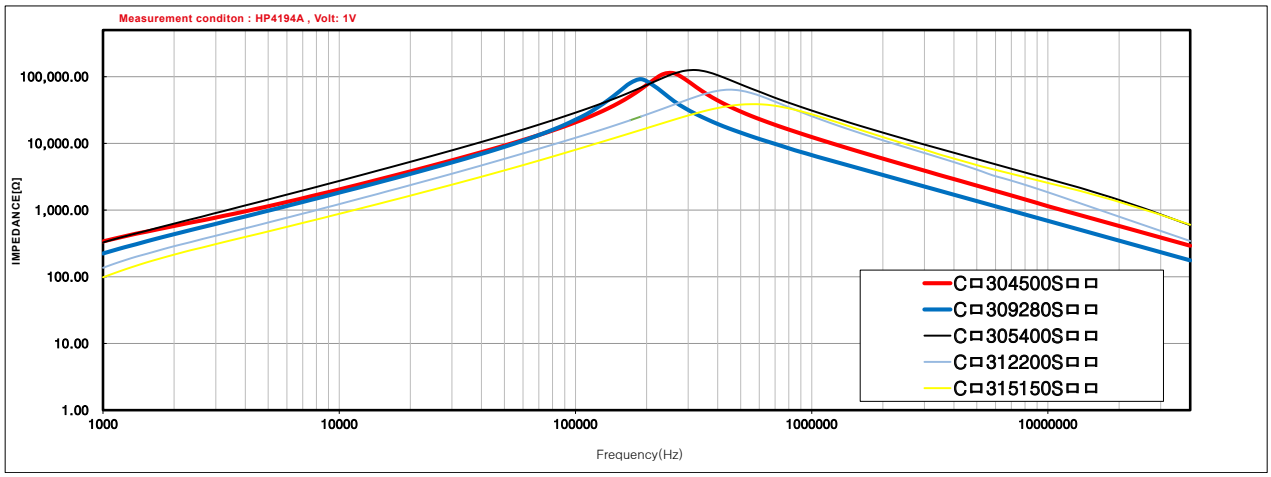
- C:Common, P:Pair
- V:Vertical, H:Horizontal
- Core Size(ex.3 : 13Φ)
- Rated Current(ex.05 : 0.5A)
- Inductance(ex.400 : 40mH)
- ui(non : 5500, S : 10000)
- Base Type
- Special

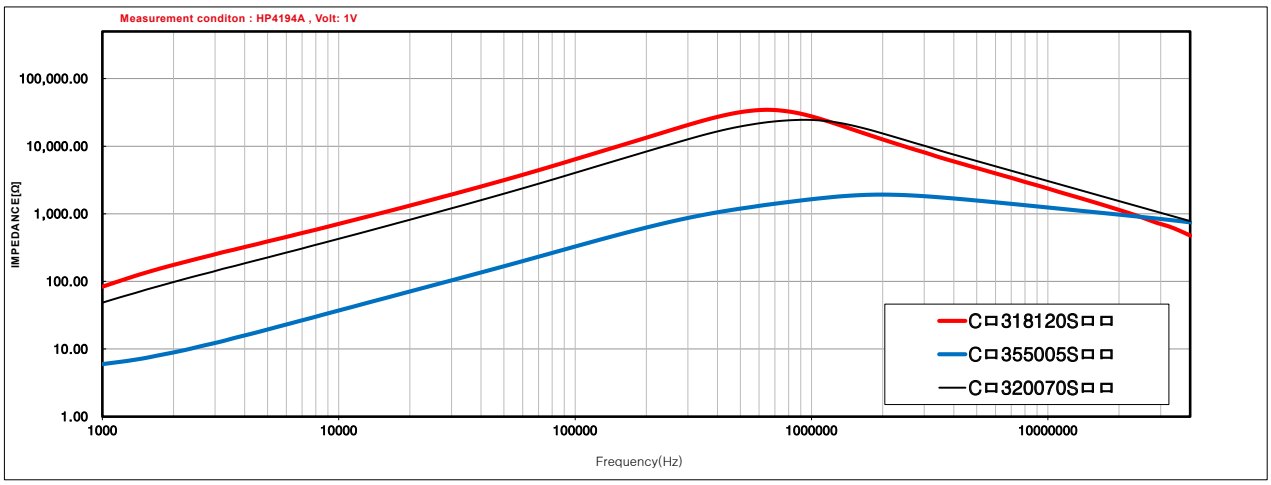
■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□304500S□□	0.4	50.0	963	300
C□305400S□□	0.5	40.0	838	300
C□309280S□□	0.9	28.0	477	300
C□312200S□□	1.2	20.0	279	300
C□315150S□□	1.5	15.0	266	300
C□318120S□□	1.8	12.0	156	300
C□320070S□□	2.0	7.0	141	300
C□355005S□□	5.5	0.50	19	300
C□36045US□□	6.0	0.45	19	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available





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■ SHAPE AND DIMENSION

Fig.1 CV3A- SERIES

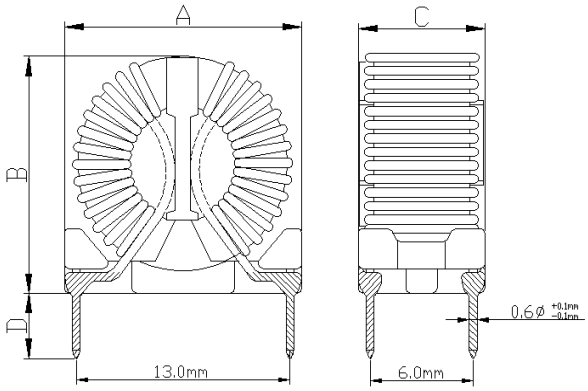


Fig.2 CV3B- SERIES

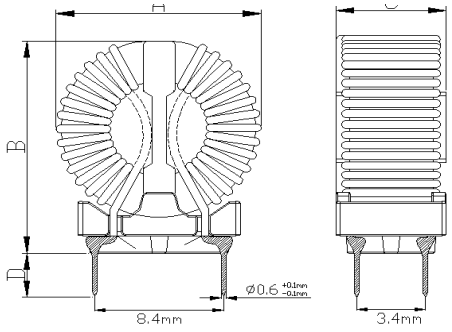


Fig.3 CV3C- SERIES

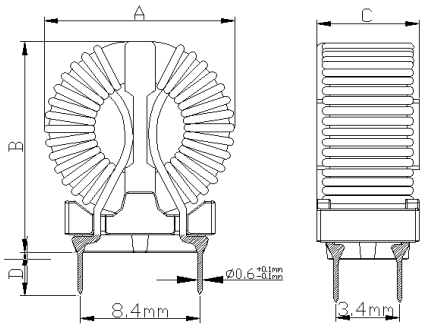
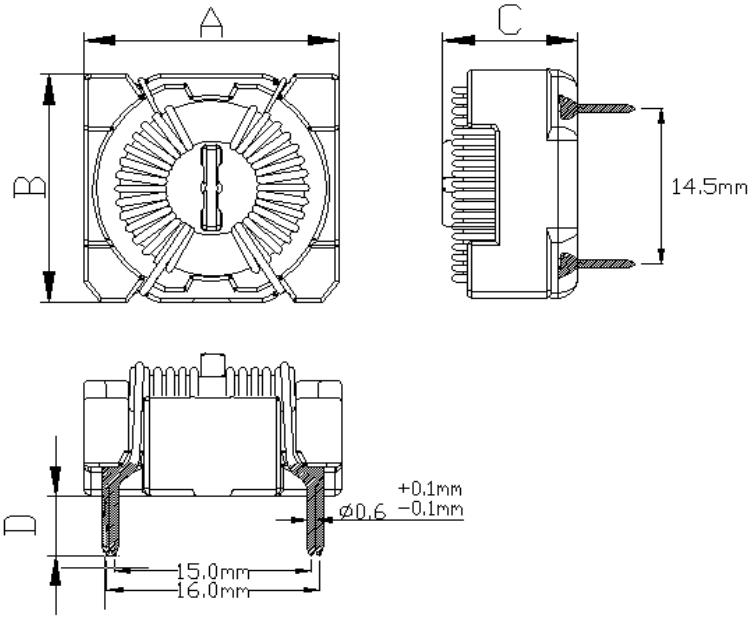


Fig.4 CH3B- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CV3A(FIG.1)	17.0	18.5	10.0	4.0±1.0
CV3B(FIG.2)	16.0	18.5	10.0	4.0±1.0
CV3C(FIG.3)	16.0	18.5	10.0	5.0±1.0
CH3B(FIG.4)	20.0	20.0	9.5	4.0±1.0

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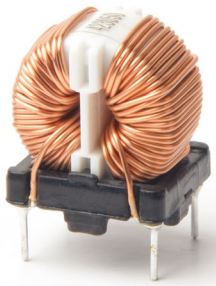
Common

14Φ-SERIES



■ PRODUCT NAME MEANING

C□4□□□□□□□□

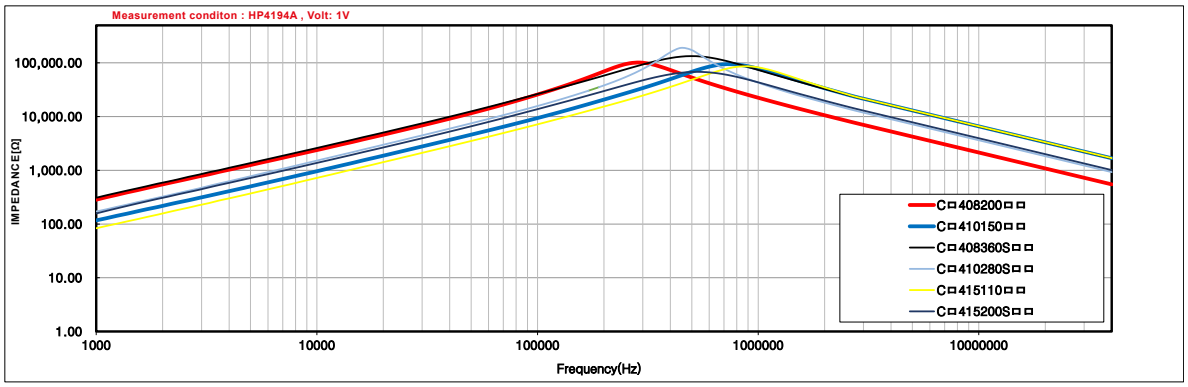
C:Common
V:Vertical, H:Horizontal
Core Size(ex.4 : 14Φ)
Rated Current(ex.08 : 0.8A)
Inductance(ex.200 : 20.0mH)
ui(non : 5500, S : 10000)
Base Type
Special

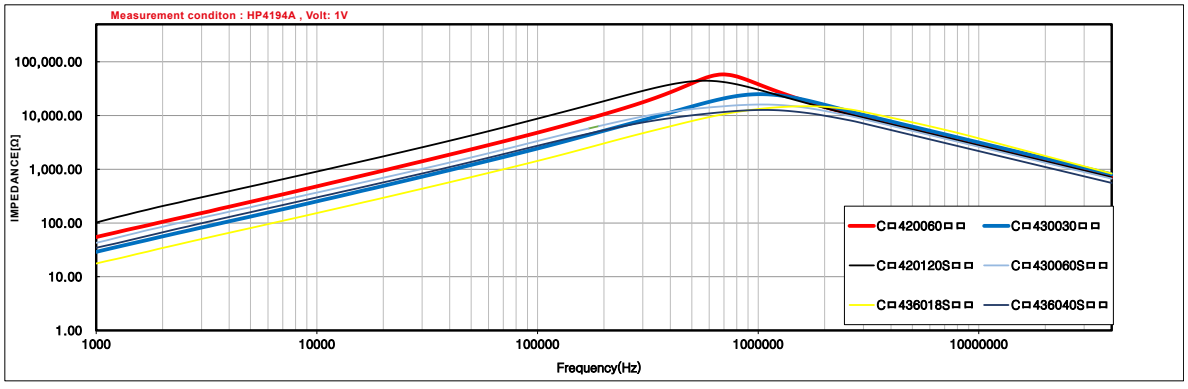
■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□408200□□	0.8	20.0	667	300
C□408360S□□	0.8	36.0	667	300
C□410150□□	1.0	15.0	422	300
C□410280S□□	1.0	28.0	422	300
C□415110□□	1.5	11.0	279	300
C□415200S□□	1.5	20.0	279	300
C□420060□□	2.0	6.0	170	300
C□420120S□□	2.0	12.0	170	300
C□423050□□	2.3	5.0	113	300
C□423090S□□	2.3	9.0	113	300
C□430030□□	3.0	3.0	92	300
C□430060S□□	3.0	6.0	92	300
C□436018□□	3.6	1.8	70	300
C□436040S□□	3.6	4.0	47	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available





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■ SHAPE AND DIMENSION

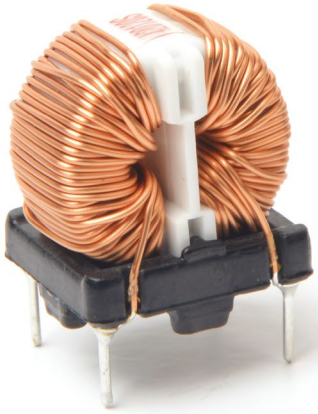


Fig.1 CV4K- SERIES

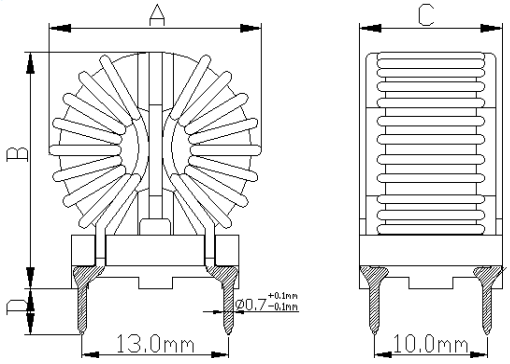


Fig.2 CV4L- SERIES

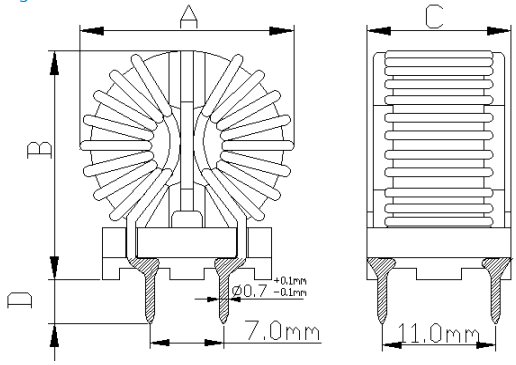
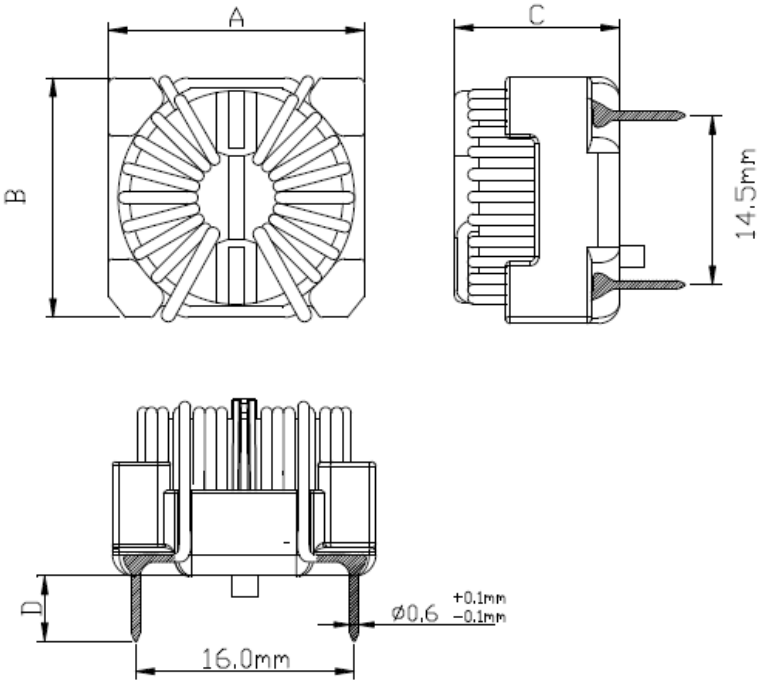


Fig.3 CH4F- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CV4K(FIG.1)	18.0	20.0	15.0	4.0±1.0
CV4L(FIG.2)	18.0	20.0	15.0	4.0±1.0
CV4F(FIG.3)	20.0	20.0	16.0	4.0±1.0

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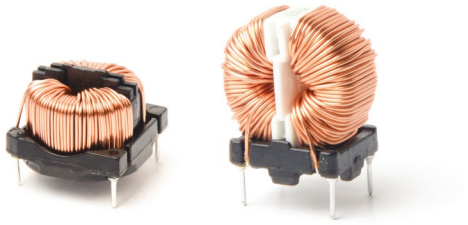
Common

16Φ-SERIES



■ PRODUCT NAME MEANING

C□6□□□□□□□□

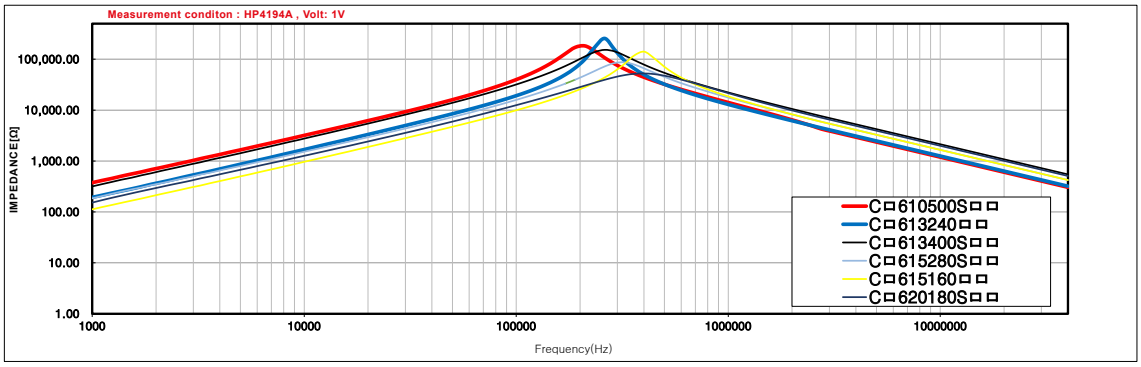
C:Common
V:Vertical, H:Horizontal
Core Size(ex.6 : 16Φ)
Rated Current(ex.13 : 1.3A)
Inductance(ex.240 : 24.0mH)
ui(non : 5500, S : 10000)
Base Type
Special

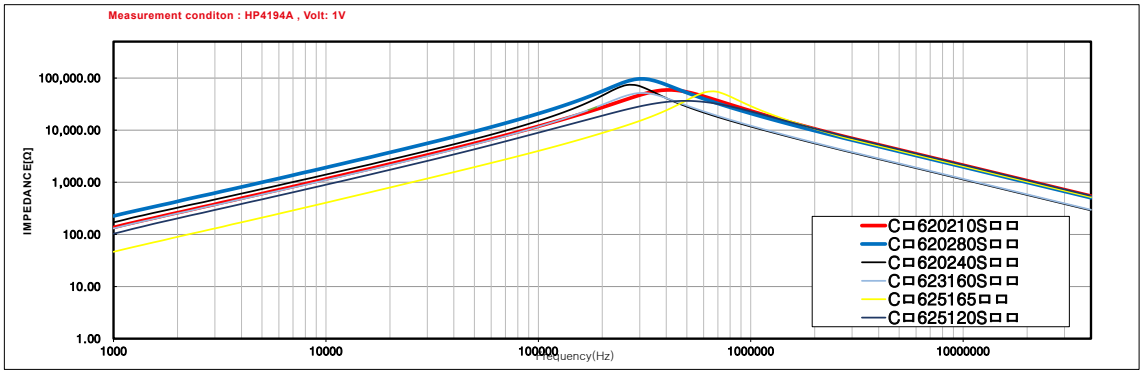
■ PART NUMBER AND SPECIFICATIONS

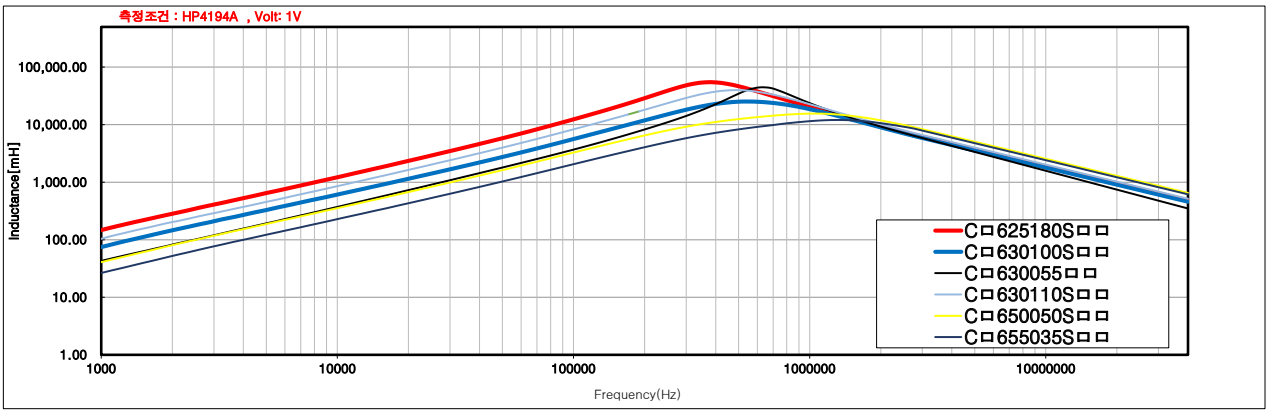
Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□610500S□□	1.0	50.0	436	300
C□613400S□□	1.3	40.0	435	300
C□613240□□	1.3	24.0	439	300
C□615280S□□	1.5	28.0	284	300
C□615160□□	1.5	16.0	284	300
C□620180S□□	2.0	18.0	173	300
C□620210S□□	2.0	21.0	177	300
C□620240S□□	2.0	24.0	173	300
C□620280S□□	2.0	28.0	212	300
C□623160S□□	2.3	16.0	138	300
C□625065□□	2.5	6.5	145	300
C□625120S□□	2.5	12.0	115	300
C□625180S□□	2.5	18.0	136	300
C□630055□□	3.0	5.5	91	300
C□630100S□□	3.0	10.	117	300
C□630110S□□	3.0	10.0 MIN	101	300
C□650050S□□	5.0	5.0	48	300
C□655035S□□	5.5	3.5	43	300
C□660012□□	6.0	1.2	25	300
D□623160S□□	2.3	16.0	165	300
D□630100S□□	3.0	10.0	85	300

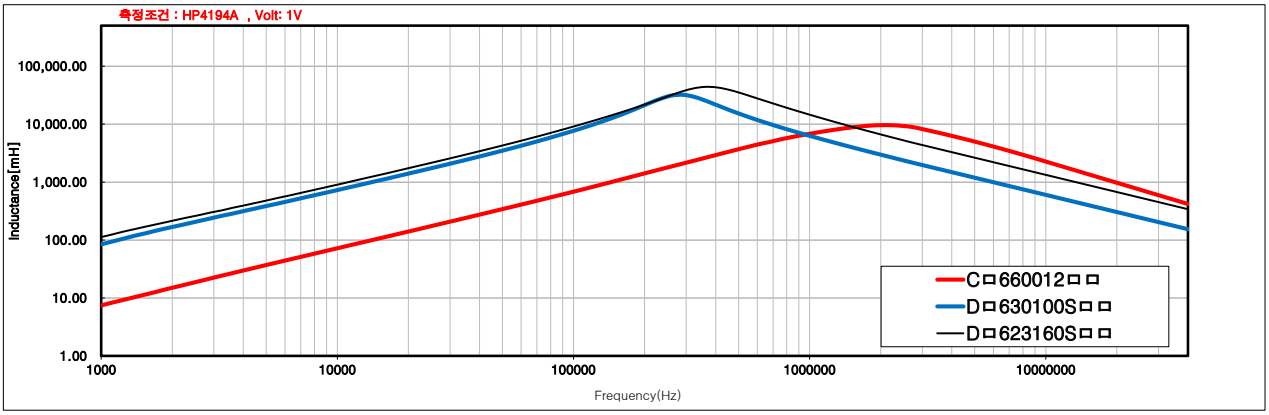
Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used - Pb-free solder used - RoHS free - Custom made Products are also available - Halogen free available









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■ SHAPE AND DIMENSION

Fig.1 CV6K- SERIES

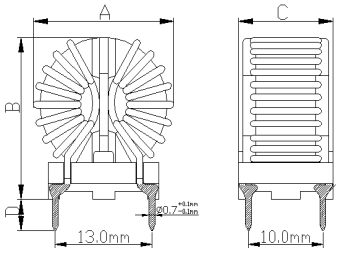


Fig.2 CV6L- SERIES

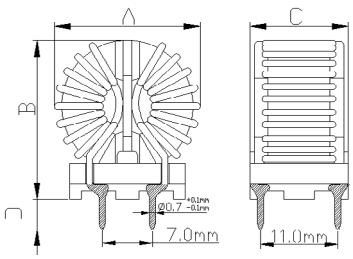


Fig.3 CH6F- SERIES

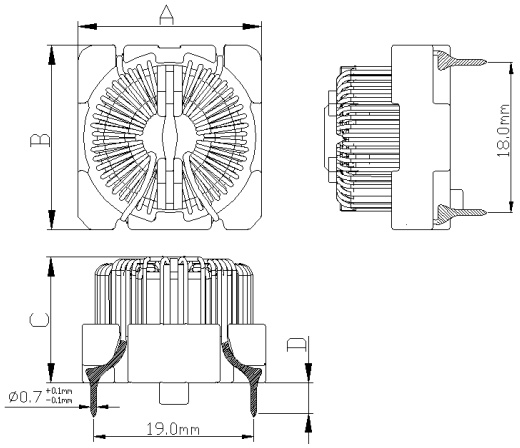
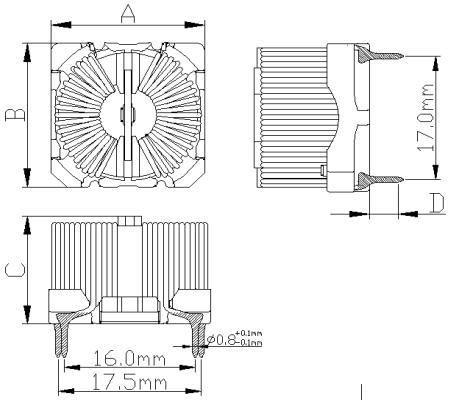


Fig.4 CH6M- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CV6K(FIG.1)	21.0	23.0	15.0	4.0±1.0
CV6L(FIG.2)	21.0	23.0	15.0	4.0±1.0
CH6F(FIG.3)	23.0	23.0	16.0	4.0±1.0
CH6M(FIG.4)	22.0	22.0	16.0	4.0±1.0

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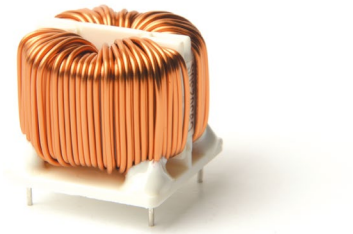
Common

19Φ-SERIES



■ PRODUCT NAME MEANING

C□9□□□□□□□□

- C:Common
- V:Vertical, H:Horizontal
- Core Size(ex.9 : 19Φ)
- Rated Current(ex.25 : 2.5A)
- Inductance(ex.300 : 30.0mH)
- ui(non : 7000, S : 10000)
- Base Type
- Special

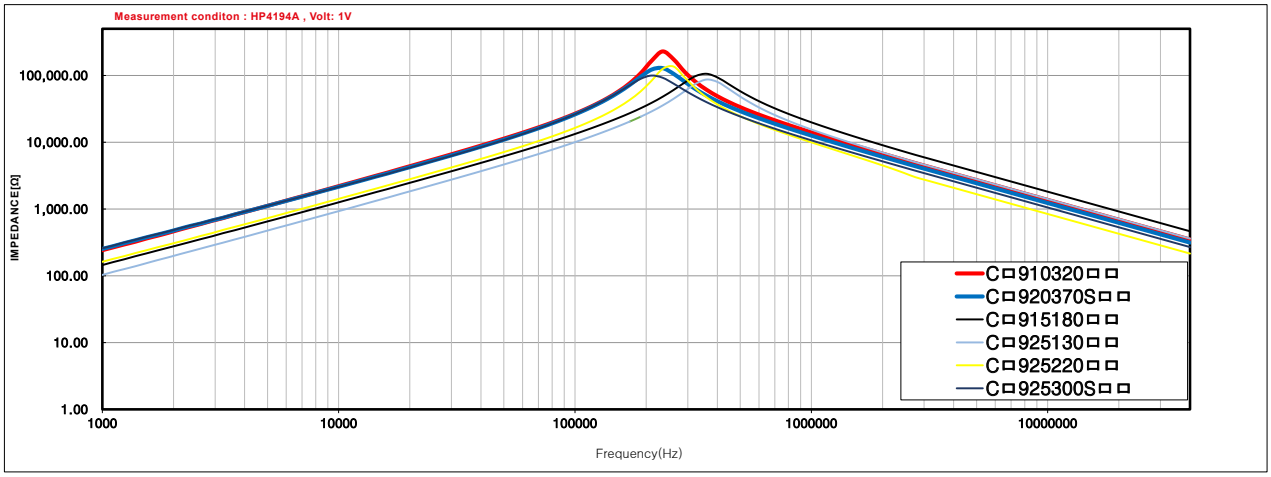
■ PART NUMBER AND SPECIFICATIONS

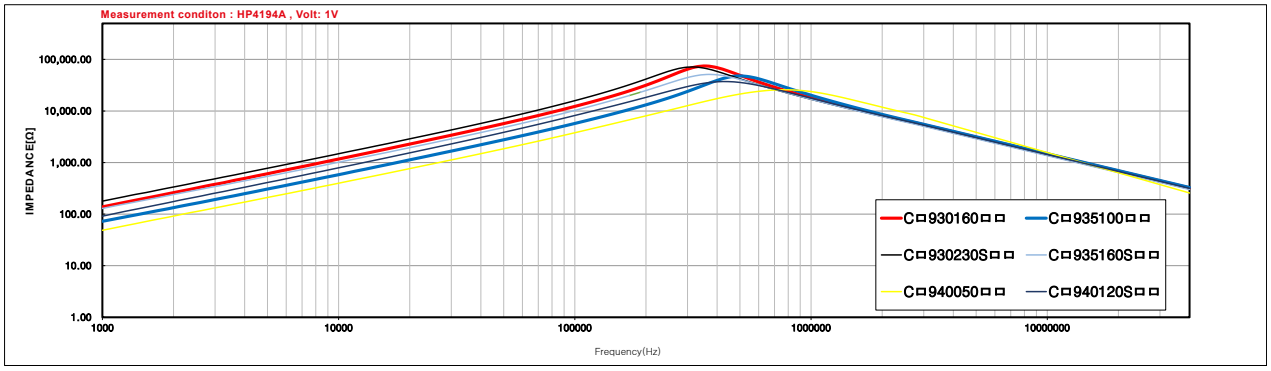
Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□910320□□	1.0	32.0	503	300
C□915180□□	1.5	18.0	250	300
C□920370S□□	2.0	37.0	244	300
C□925130□□	2.5	13.0	173	300
C□925220□□	2.5	22.0	187	300
C□925300S□□	2.5	30.0	183	300
C□930160□□	3.0	16.0	138	300
C□930230S□□	3.0	23.0	138	300
C□935100□□	3.5	10.0	96	300
C□935160S□□	3.5	16.0	103	300
C□940050□□	4.0	5.0	80	300
C□940120S□□	4.0	12.0	77	300
C□945110S□□	4.5	11.0	69	300
C□950075S□□	5.0	7.5	58	300
C□970020□□	7.0	2.0	25	300
C□970035S□□	7.0	3.5	26	300
C□970050S□□	7.0	5.0	30	300

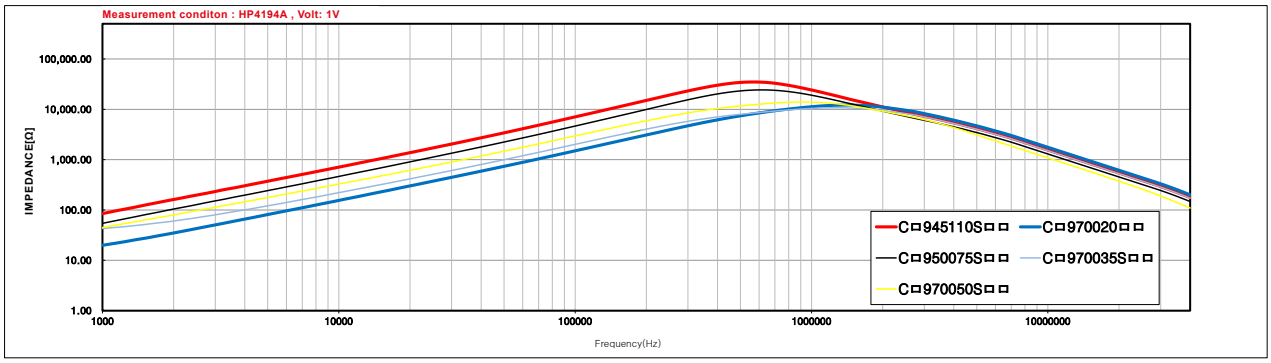
Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available







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■ SHAPE AND DIMENSION

Fig.1 CV9F- SERIES

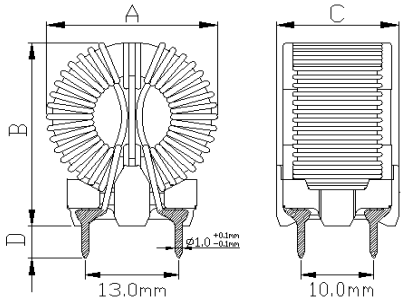


Fig.2 CV9E- SERIES

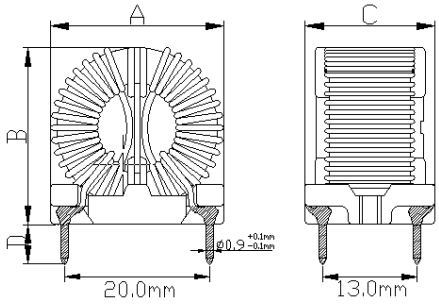


Fig.3 CH9H- SERIES

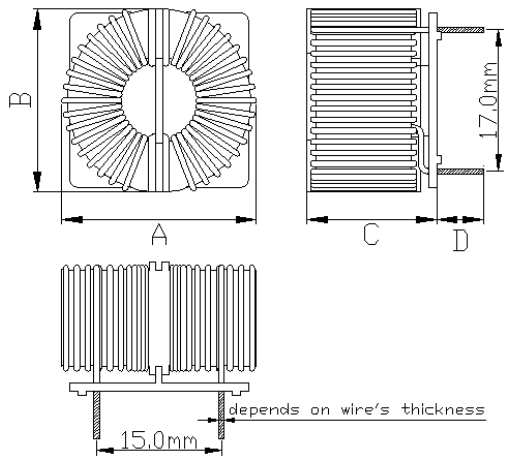
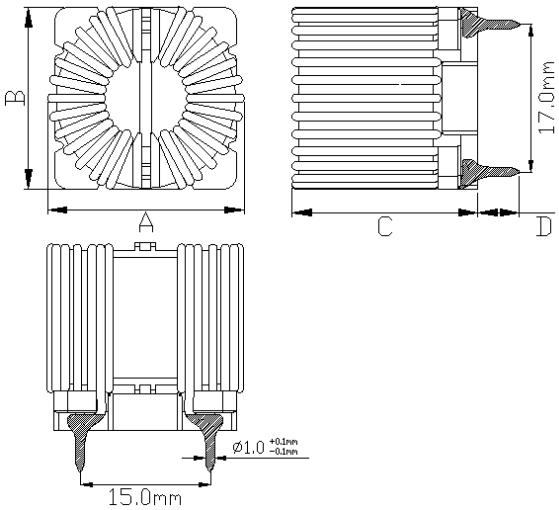


Fig.4 CH9Q- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CV9F(FIG.1)	25.0	30.0	20.0	4.0±1.0
CV9E(FIG.2)	25.0	25.0	21.0	4.0±1.0
CH9H(FIG.3)	26.0	26.0	24.0	4.0±1.0
CH9Q(FIG.4)	26.0	26.0	24.0	4.0±1.0

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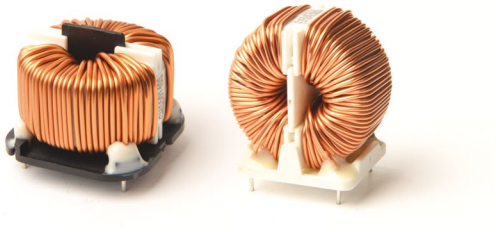
Common

25Φ-SERIES



■ PRODUCT NAME MEANING

C□5□□□□□□□□

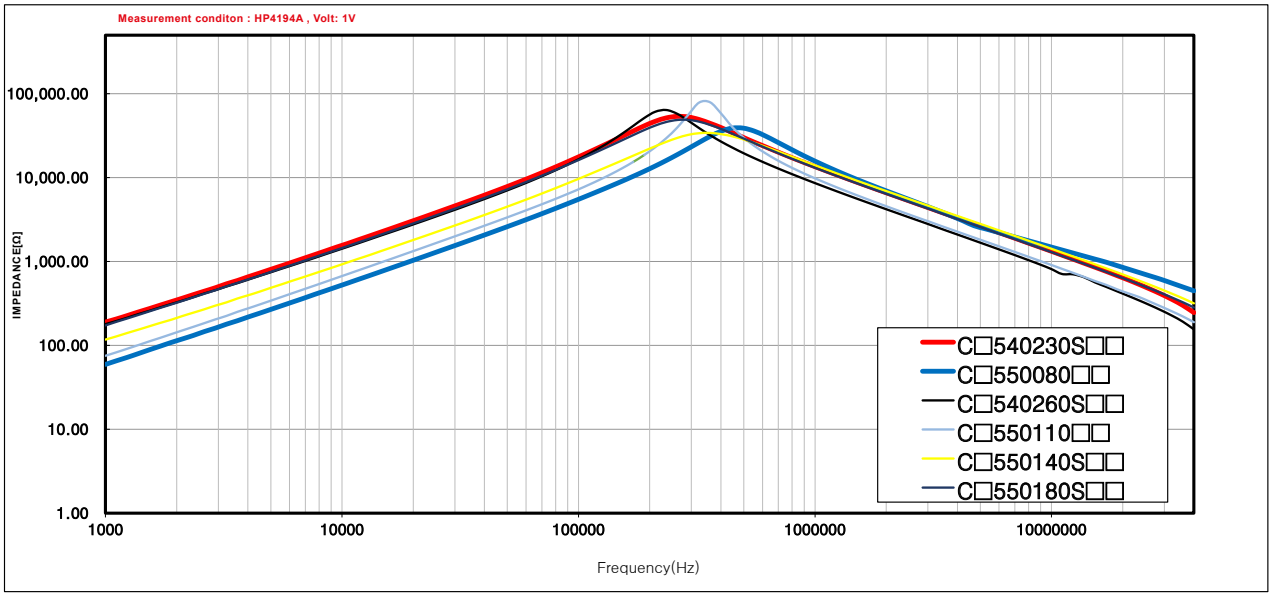
- C:Common
- V:Vertical, H:Horizontal
- Core Size(ex.5 : 25Φ)
- Rated Current(ex.25 : 2.5A)
- Inductance(ex.400 : 40.0mH)
- ui(non : 5500, S : 10000)
- Base Type
- Special

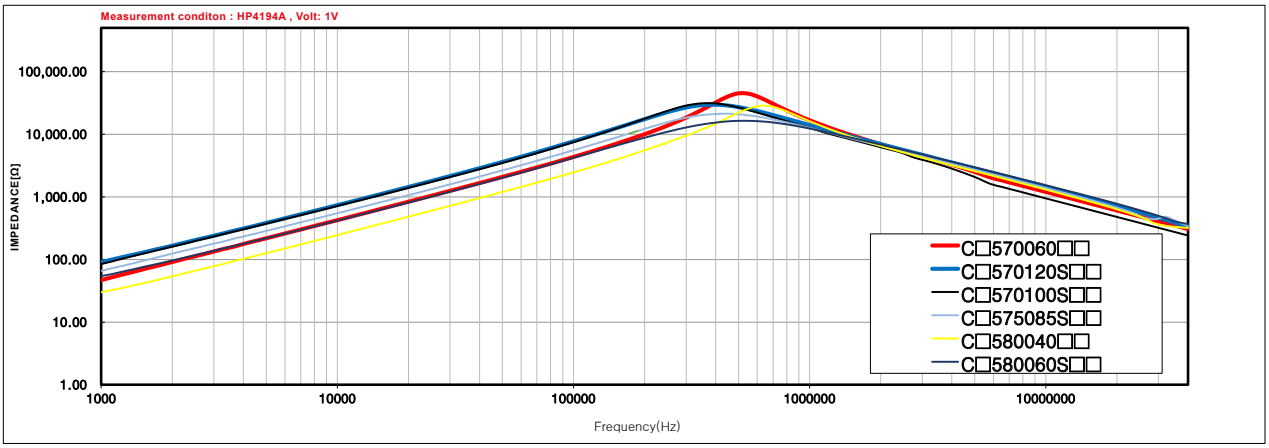
■ PART NUMBER AND SPECIFICATIONS

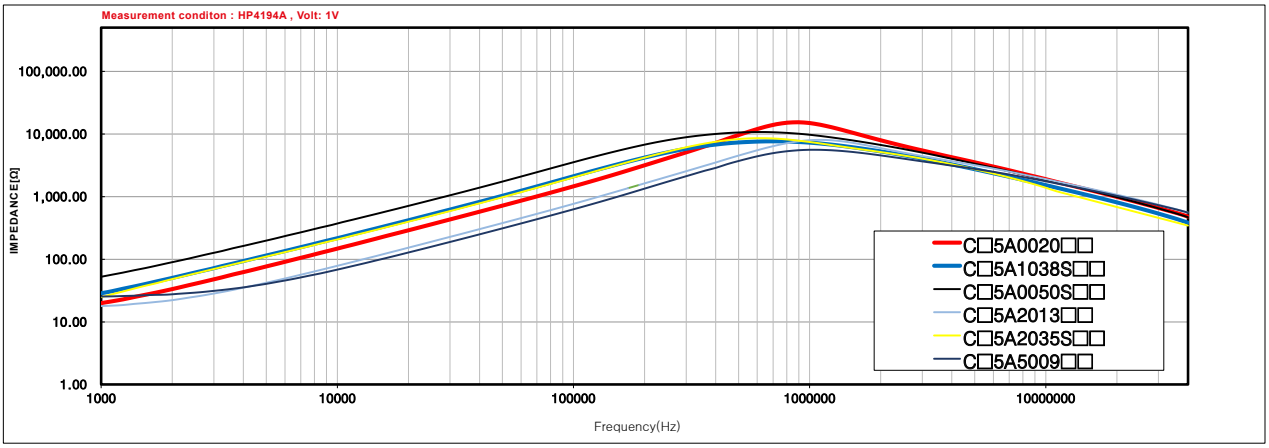
Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□530400S□□	3.0	40.0	161	300
C□535140□□	3.5	14.0	143	300
C□540230S□□	4.0	23.0	85	300
C□540260S□□	4.0	26.0	91	300
C□550080□□	5.0	8.0	77	300
C□550110□□	5.0	11.0	78	300
C□550140S□□	5.0	14.0	46	300
C□550180S□□	5.0	18.0	67	300
C□570060□□	7.0	6.0	46	300
C□570100S□□	7.0	10.0	46	300
C□570120S□□	7.0	12.0	35	300
C□575085S□□	7.5	8.5	39	300
C□580040□□	8.0	4.0	33	300
C□580060S□□	8.0	6.0	28	300
C□5A0020□□	10.0	2.0	23	300
C□5A0050S□□	10.0	5.0	20	300
C□5A1038S□□	11.0	3.8	16	300
C□5A2013□□	12.0	1.3	14	300
C□5A2035S□□	12.0	3.5	14	300
C□5A5009□□	15.0	0.9	10	300
D□550180S□□	5.0	18.0	67	300
D□580080S□□	8.0	8.0	30	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available







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■ SHAPE AND DIMENSION

Fig.1 CV5K- SERIES

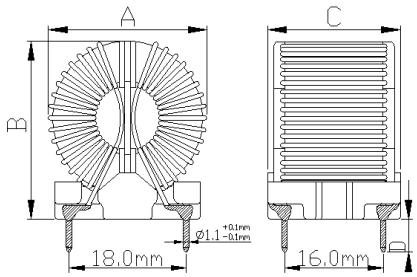


Fig.2 CV5A- SERIES

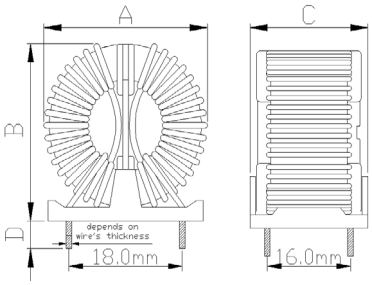
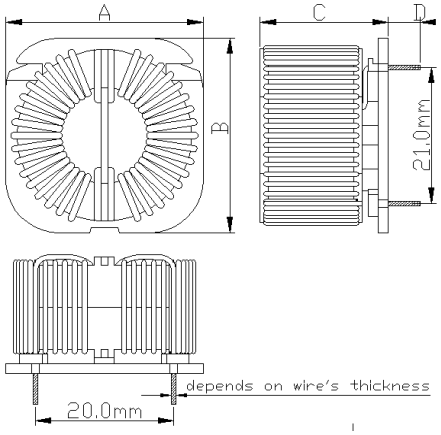
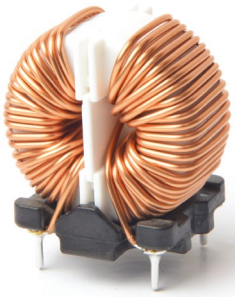


Fig.3 CH5H- SERIES





MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CV5K(FIG.1)	33.0	35.0	25.0	4.0±1.0
CV5A(FIG.2)	33.0	35.0	25.0	4.0±1.0
CH5H(FIG.3)	35.0	35.0	25.0	4.0±1.0

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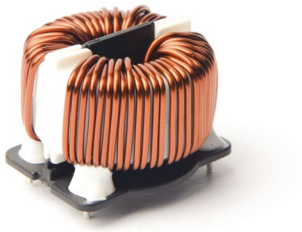
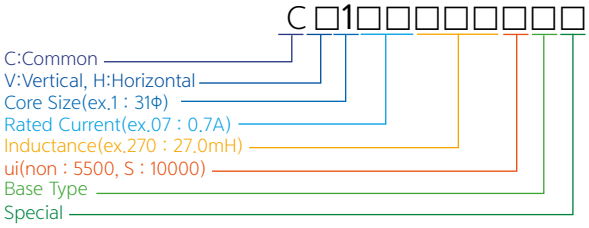
Common

31Φ-SERIES



■ PRODUCT NAME MEANING

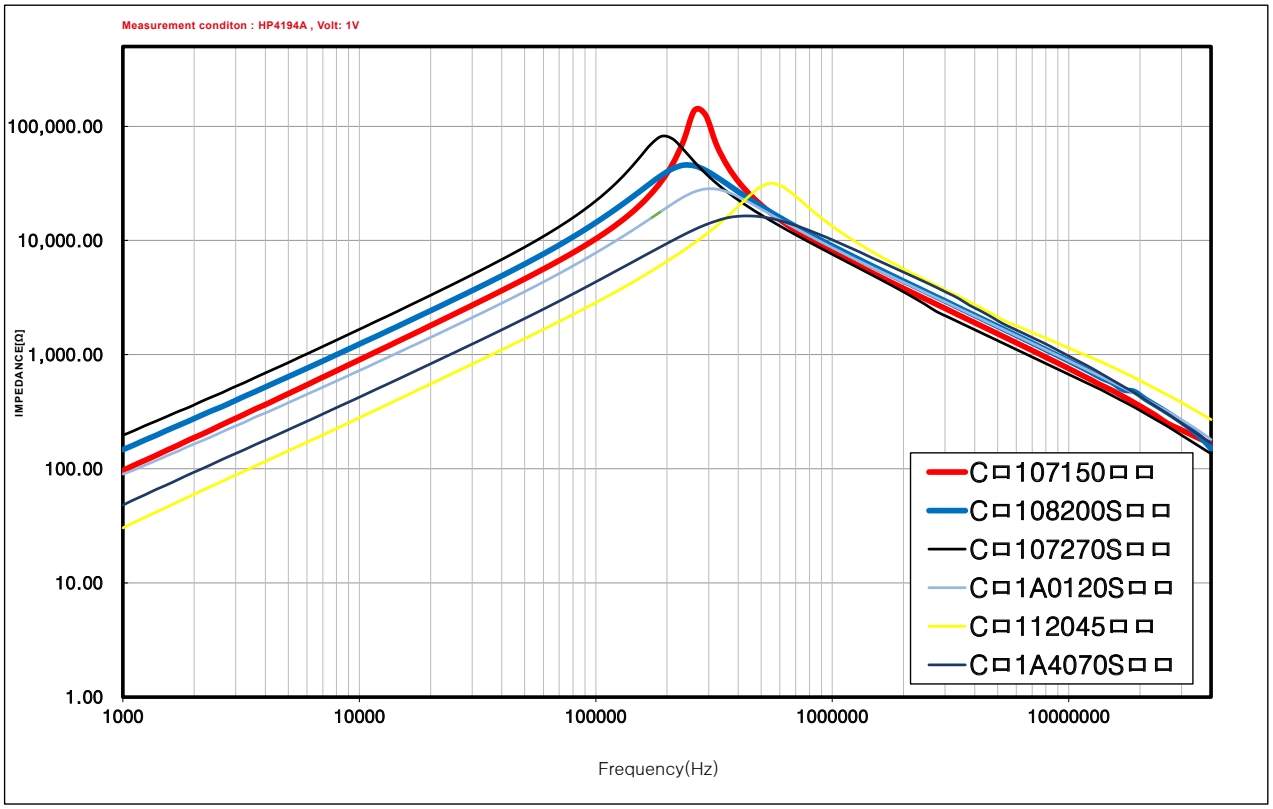


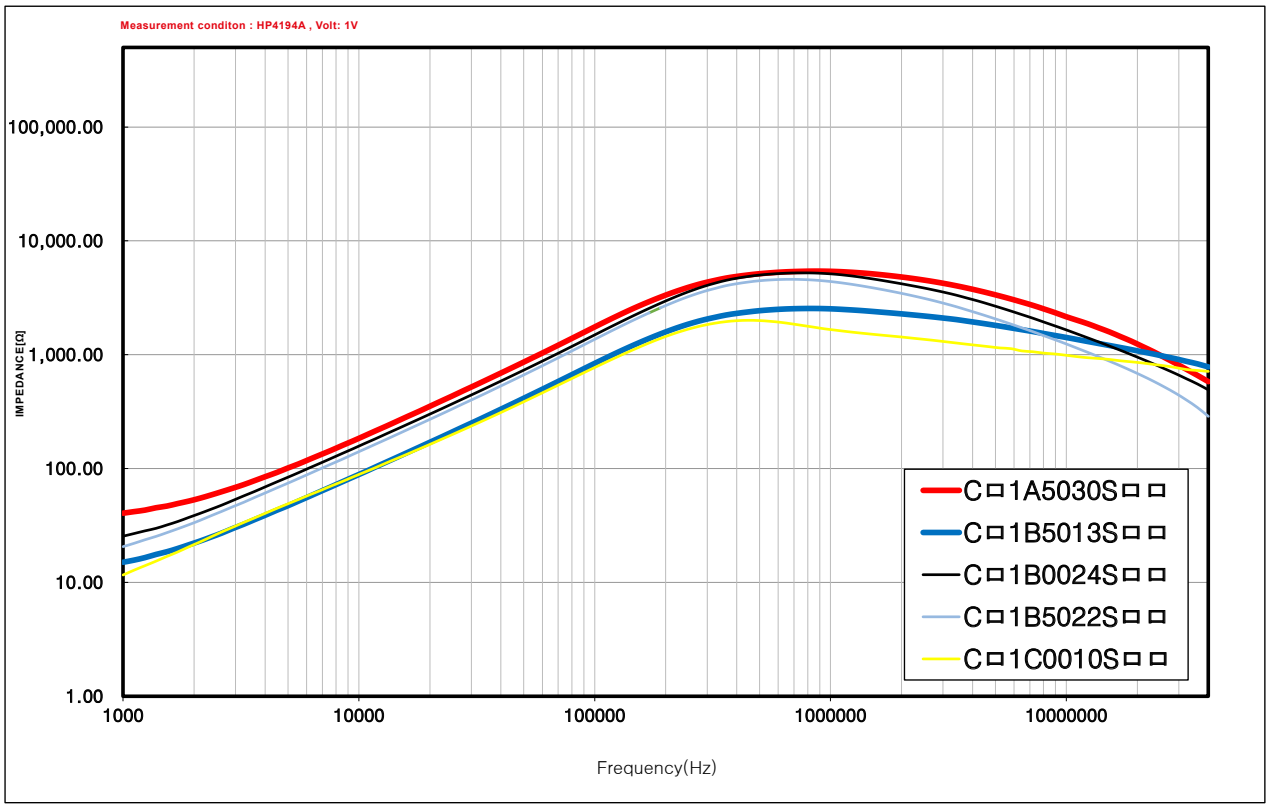
■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□170150□□	7.0	15.0	48	300
C□170270S□□	7.0	27.0	60	300
C□180200S□□	8.0	20.0	44	300
C□1A0120S□□	10.0	12.0	26	300
C□1A2045□□	12.0	4.5	15	300
C□1A4070S□□	14.0	7.0	16	300
C□1A5030S□□	15.0	3.0	13	300
C□1B0024S□□	20.0	2.4	7	300
C□1B5013S□□	25.0	1.3	6	300
C□1B5022S□□	25.0	2.2	6	300
C□1C0010S□□	30.0	1.0	4	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available





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■ SHAPE AND DIMENSION

Fig.1 CV1A- SERIES

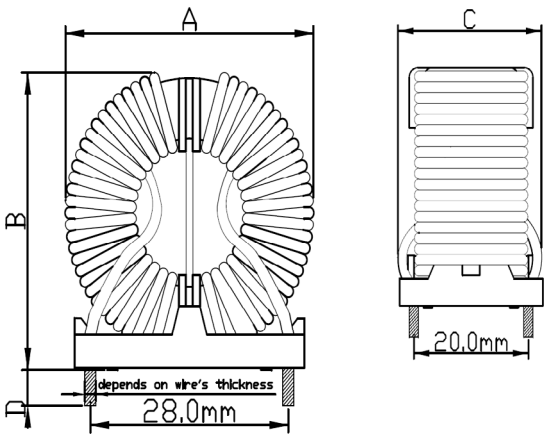
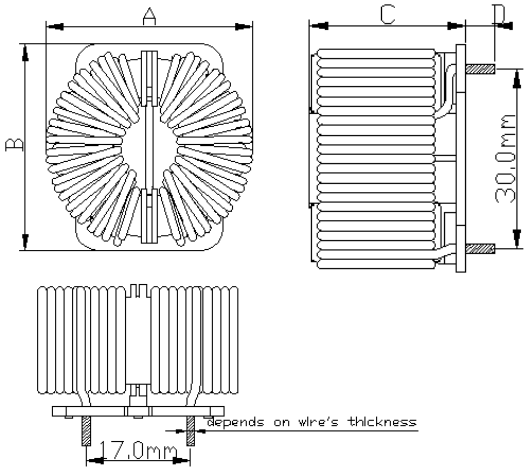


Fig.2 CH1H- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CV1A(FIG.1)	43.0	43.0	28.0	4.0±1.0
CH1H(FIG.2)	42.0	40.0	30.0	4.0±1.0

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Common

49Φ,51Φ-SERIES

■ PRODUCT NAME MEANING

C□1□□□□□□□□

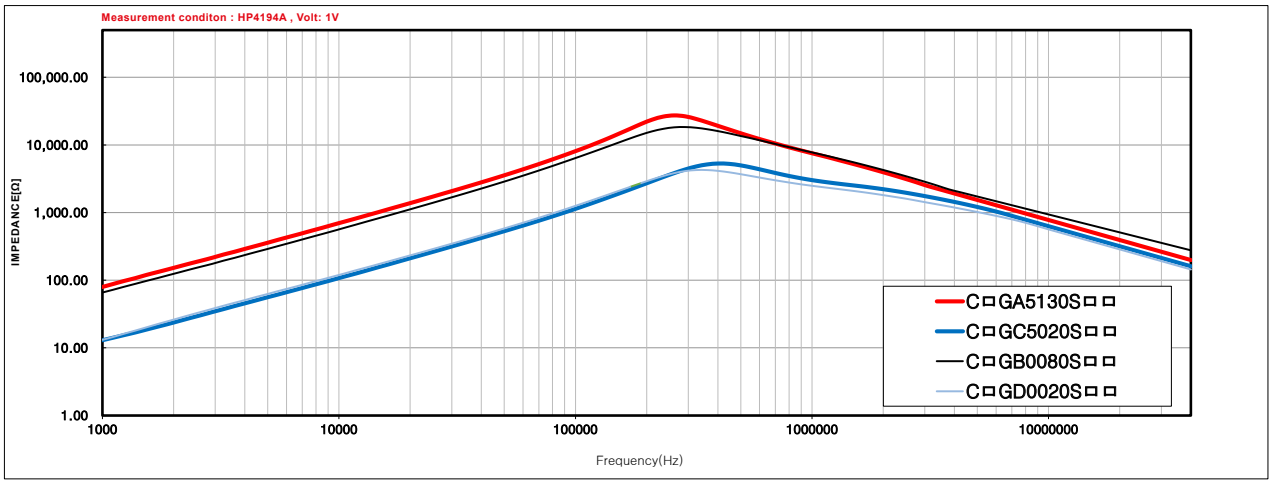
- C:Common
- V:Vertical, H:Horizontal
- Core Size(ex.1 : 31Φ)
- Rated Current(ex.07 : 0.7A)
- Inductance(ex.270 : 27.0mH)
- ui(non : 5500, S : 10000)
- Base Type
- Special

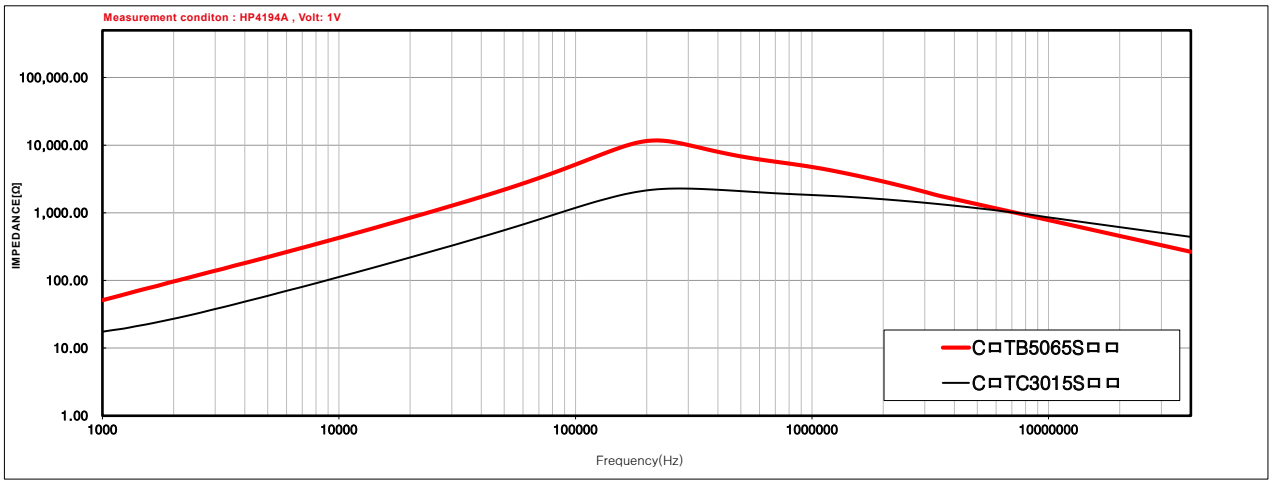
■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□GA5130S□□	15.0	13.0	14	300
C□GB0080S□□	20.0	8.0	11	300
C□GC5020S□□	35.0	2.0	3.5	300
C□GD0020S□□	40.0	2.0	3	300
C□TB5065S□□	25.0	6.5	10	300
C□TC3015S□□	33.0	1.5	6	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available





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■ SHAPE AND DIMENSION

Fig.1 CVGA- SERIES

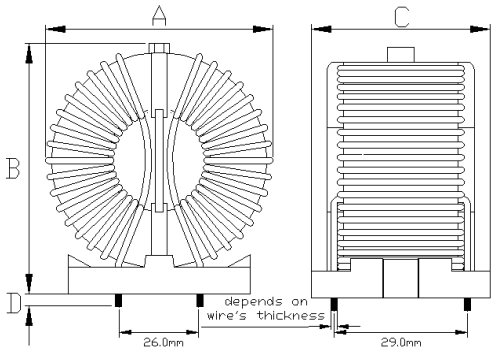


Fig.2 CVGB- SERIES

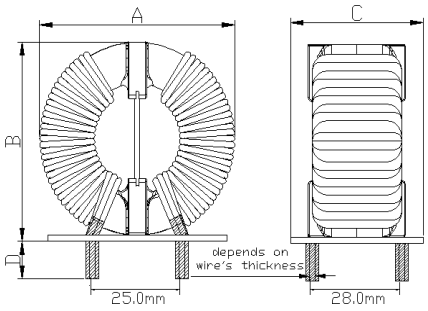


Fig.3 CHGH- SERIES

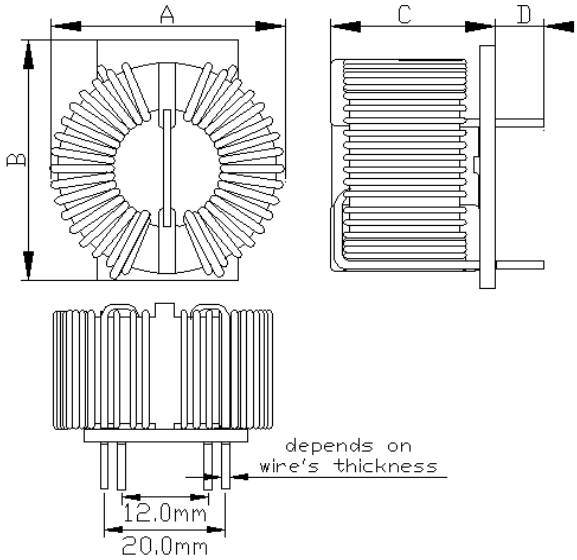
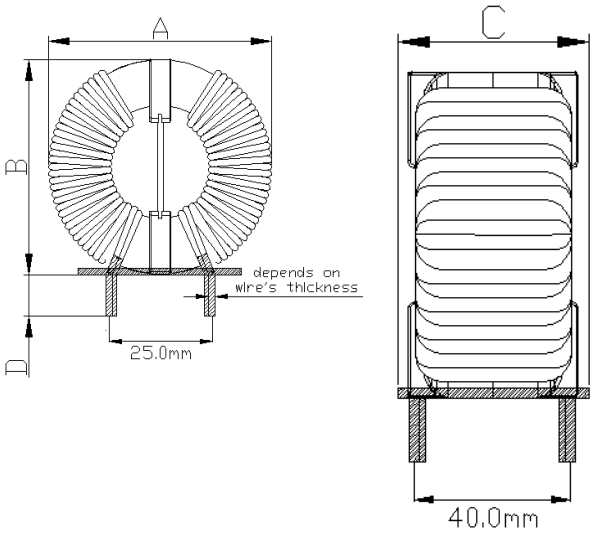


Fig.4 CVTJ- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CVGA(FIG.1)	65.0	65.0	40.0	5.0±2.0
CVGB(FIG.2)	62.0	60.0	38.0	5.0±2.0
CHGH(FIG.3)	70.0	65.5	40.0	5.0±2.0
CVTJ(FIG.4)	70.0	70.0	50.0	5.0±2.0

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Common

3상COIL-SERIES

■ PRODUCT NAME MEANING

T□G□□□□□□□□

- T:Three-Phase
- V:Vertical, H:Horizontal
- Core Size(ex.G : 49Φ)
- Rated Current(ex.B5 : 25A)
- Inductance(ex.013 : 1.3mH)
- ui(non : 5500, S : 10000)
- Base Type
- Special

■ PRODUCT NAME MEANING

T□6□□□□□□□□

- T:Three-Phase
- V:Vertical, H:Horizontal
- Core Size(ex.6 : 16Φ)
- Rated Current(ex.30 : 0.3A)
- Inductance(ex.0116 : 1.6mH)
- ui(non : 5500, S : 10000)
- Base Type
- Special

■ PRODUCT NAME MEANING

T□T□□□□□□□□

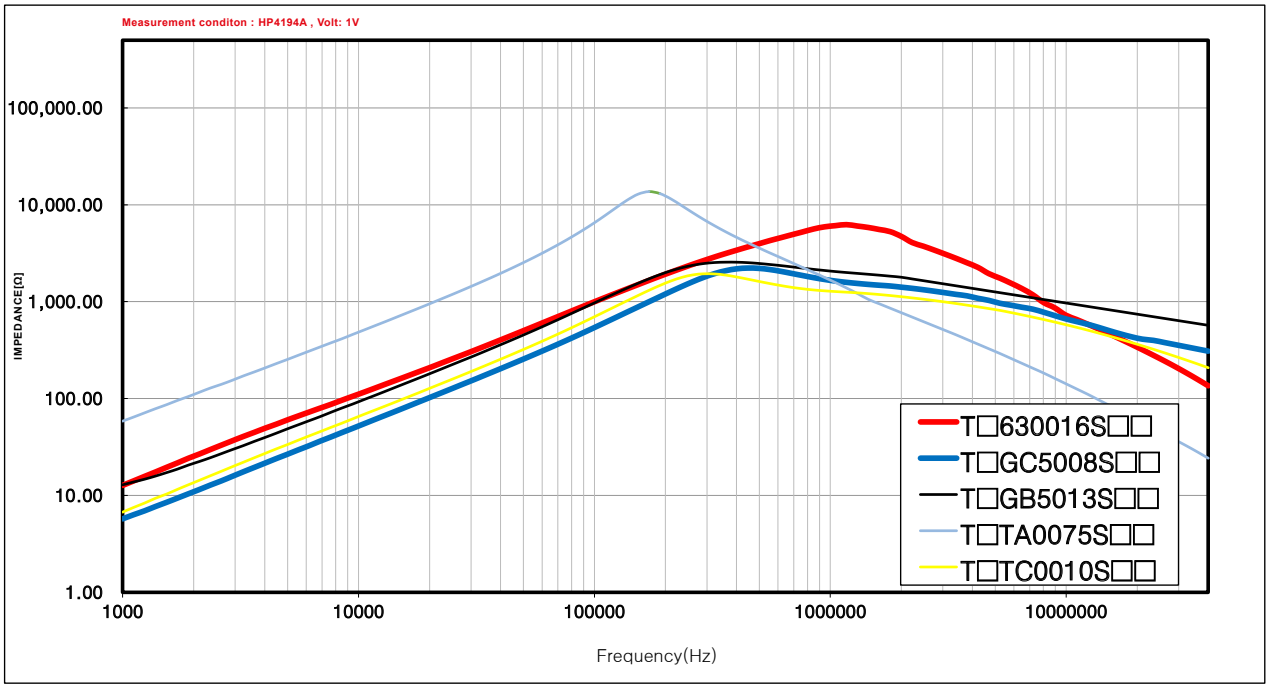
- T:Three-Phase
- V:Vertical, H:Horizontal
- Core Size(ex.T : 51Φ)
- Rated Current(ex.A0 : 10A)
- Inductance(ex.075 : 7.5mH)
- ui(non : 5500, S : 10000)
- Base Type
- Special

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
T□630016S□□	3.0	1.6	60	450
T□GB5013S□□	25.0	1.3	5	450
T□GC5008S□□	35.0	0.8	2	450
T□TA0075S□□	10.0	(1KHz) 3.5MIN	22	450
T□TC0010S□□	30.0	(100KHz) 1.2	3	450

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available



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■ SHAPE AND DIMENSION

Fig.1 TV6A- SERIES

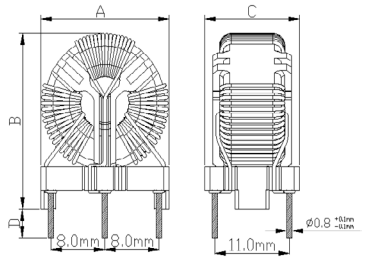


Fig.2 TVGN- SERIES

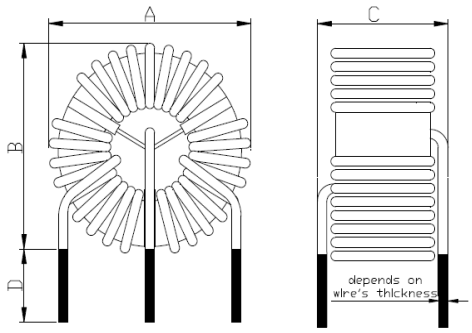


Fig.3 THGN- SERIES

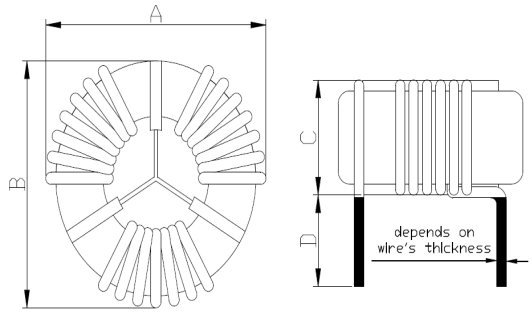


Fig.4 TVTE- SERIES

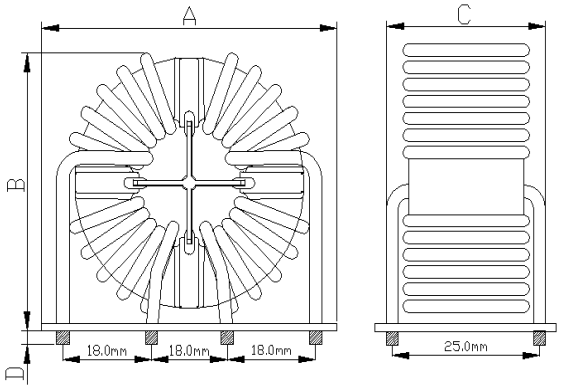


Fig.5 TVTB- SERIES

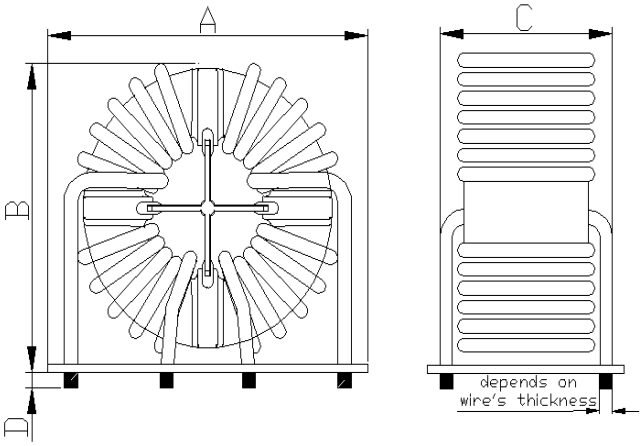
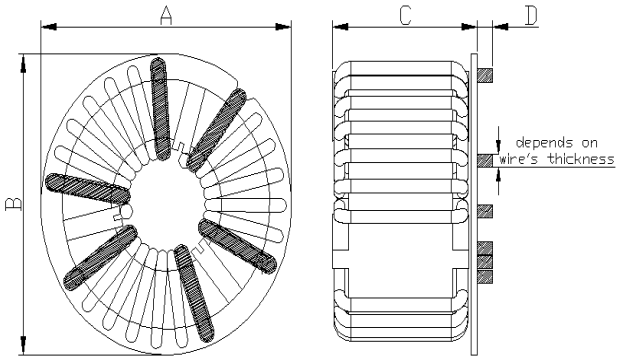


Fig.6 THTA- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
TV6A(FIG.1)	22.0	27.0	17.0	4.0±1.0
TVGN(FIG.2)	65.0	65.0	40.0	15.0±5.0
THGN(FIG.3)	65.0	65.0	35.0	20.0±5.0
TVTE(FIG.4)	70.5	65.0	35.5	4.0±1.0
TVTB(FIG.5)	72.0	65.0	47.0	4.0±1.0
THTA(FIG.6)	68.0	68.0	43.0	4.0±1.0

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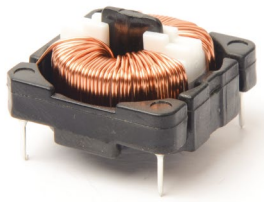
Common

SLIM 16Φ-SERIES



■ PRODUCT NAME MEANING

CS6□□□□□□□□

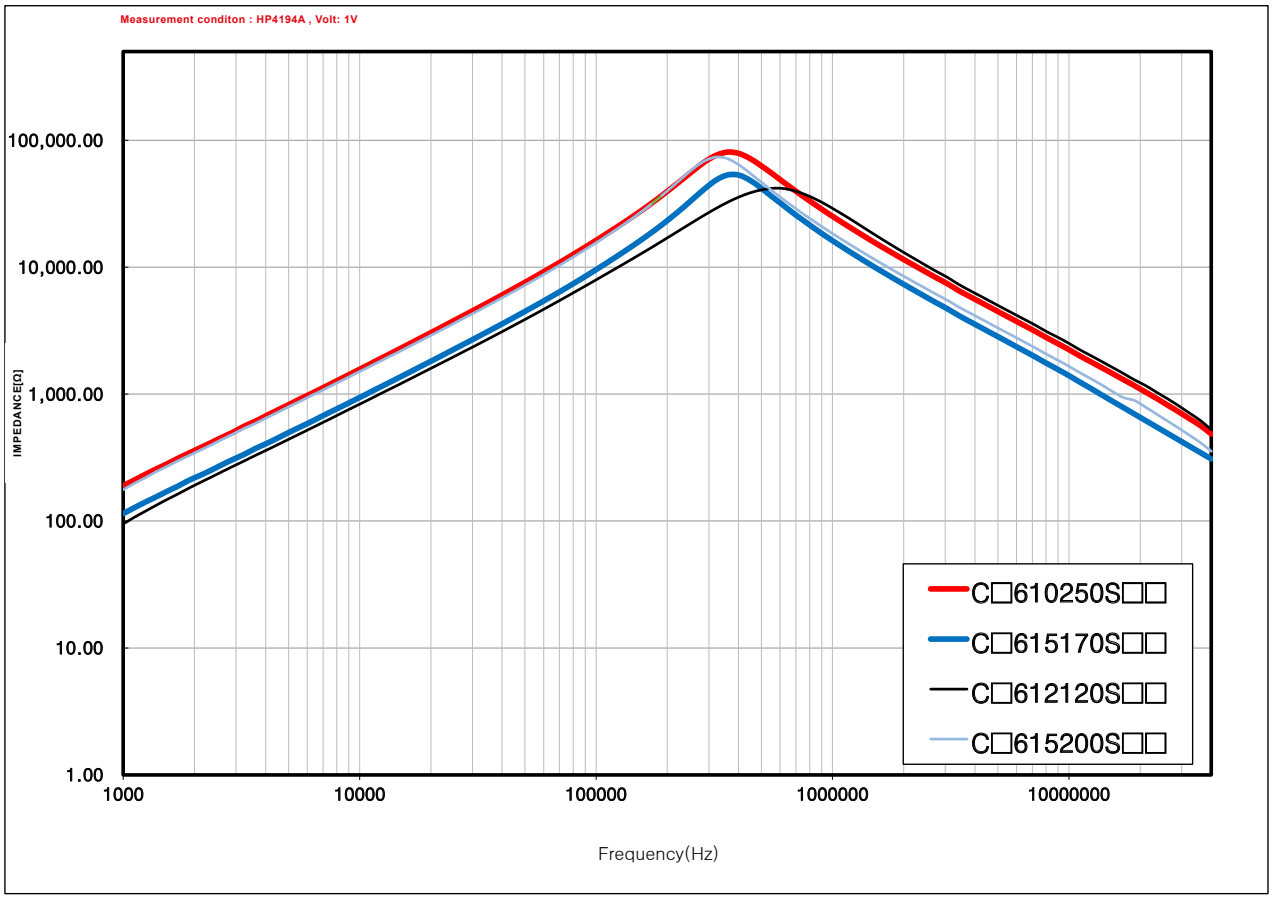
- C:Common
- S: SLIM type
- Core Size(ex.6 : 16Φ)
- Rated Current(ex.13 : 1.3A)
- Inductance(ex.240 : 24.0mH)
- ui(non : 10000, F : Fine Metal
- Base Type
- Special

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□610250S□□	1.0	25.0	350	300
C□612120S□□	1.2	12.0	420	300
C□615170S□□	1.5	17.0	220	300
C□615200S□□	1.5	20.5	275	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available



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■ SHAPE AND DIMENSION

Fig.1 CS6H- SERIES

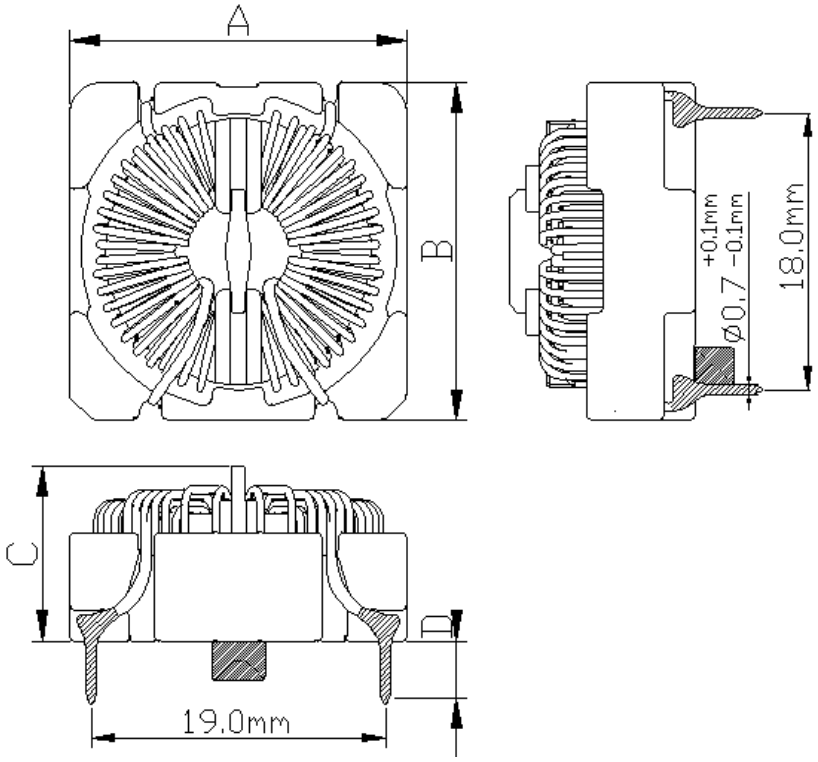
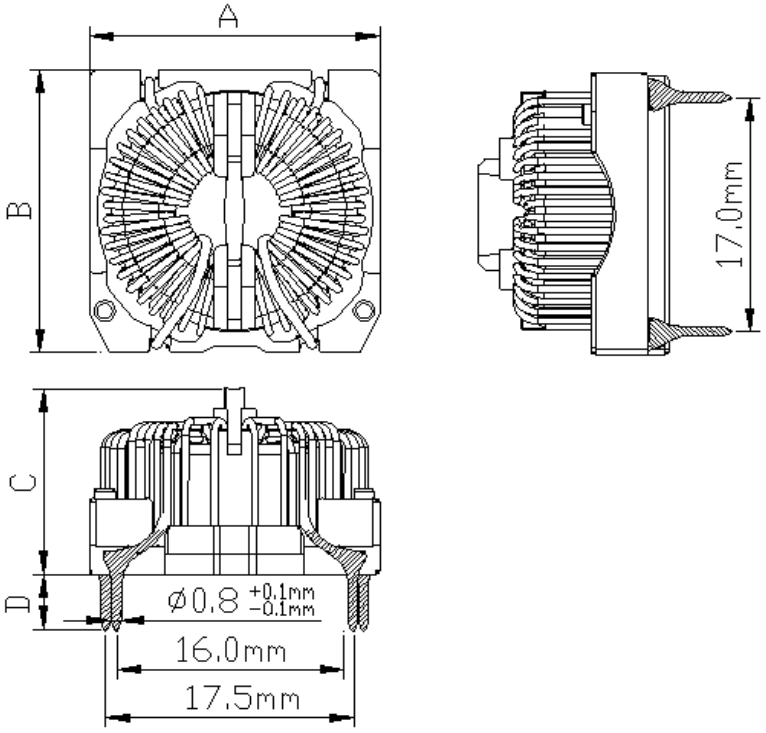


Fig.2 CS6K- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CV6H(FIG.1)	23.0	23.0	13.5	4.0±1.0
CV6K(FIG.2)	21.0	23.0	13.5	4.0±1.0

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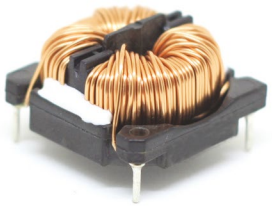
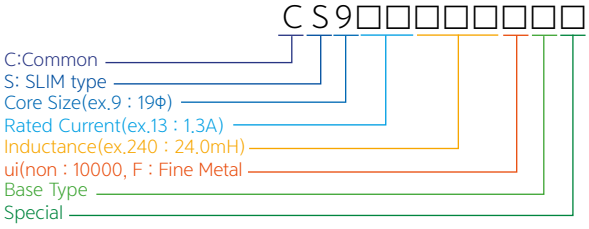
Common

SLIM 19Φ-SERIES



■ PRODUCT NAME MEANING

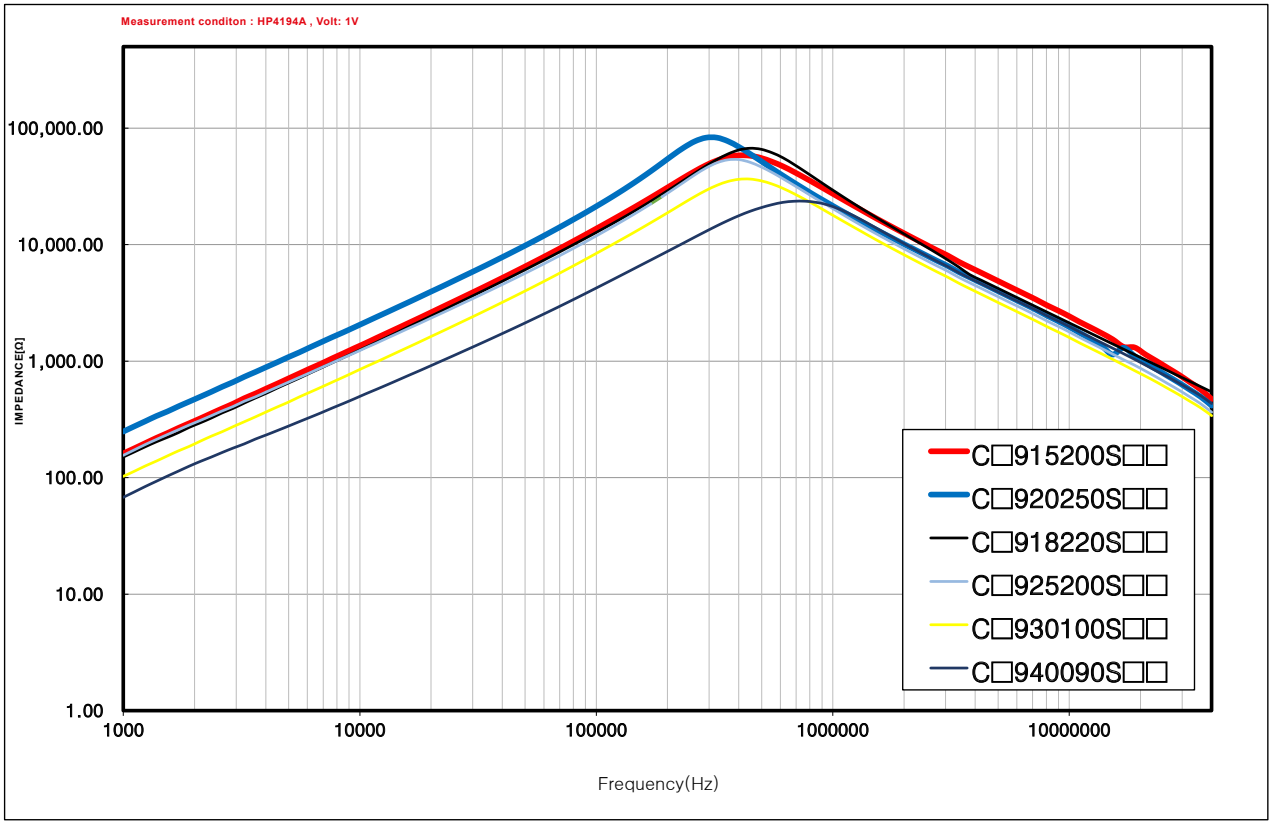


■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□915200S□□	1.5	20.0	300	300
C□918220S□□	1.8	22.0	235	300
C□920250S□□	2.0	25.0	250	300
C□925200S□□	2.5	20.0	123	300
C□930100S□□	3.0	10.0	80.5	300
C□940090S□□	4.0	9.0	55	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available



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■ SHAPE AND DIMENSION

Fig.1 CS9B- SERIES

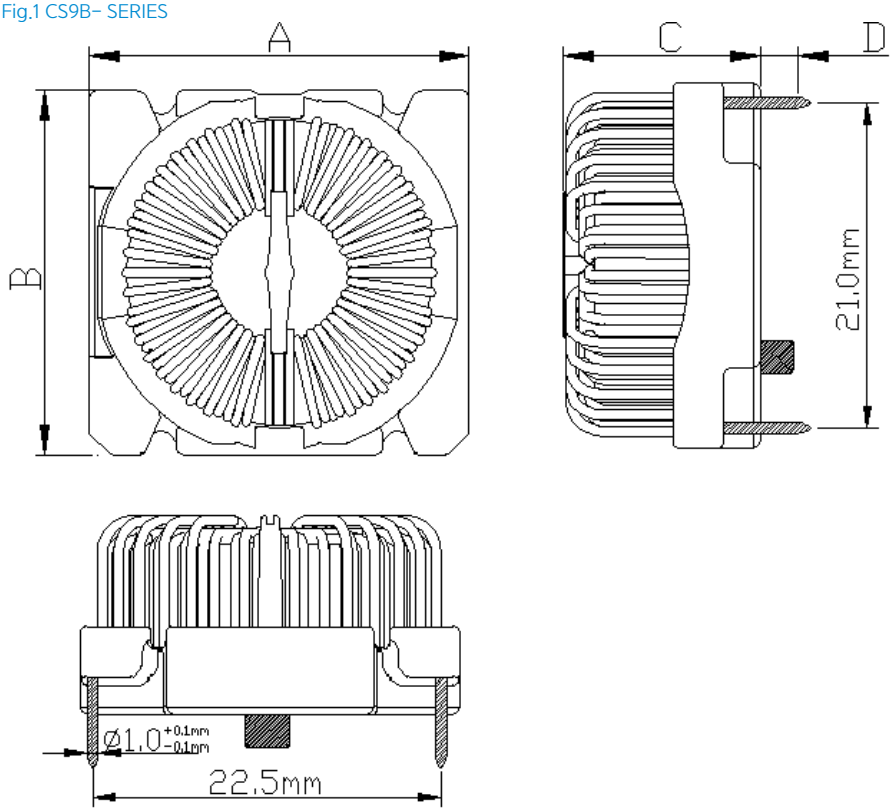
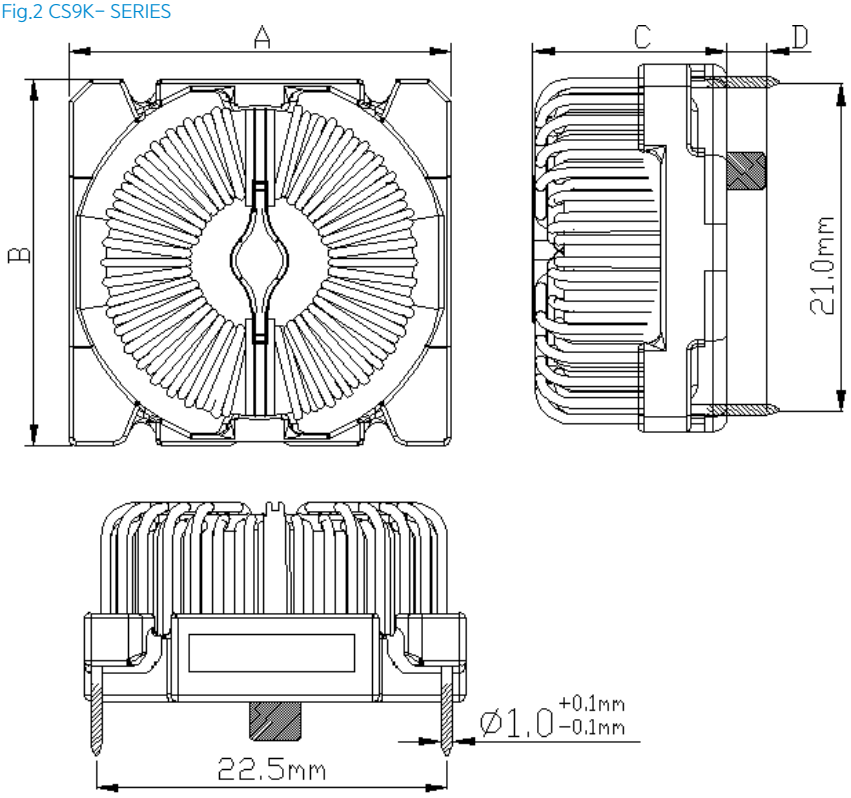


Fig.2 CS9K- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CS9B(FIG.1)	28.0	27.0	15.0	4.0±1.0
CS9K(FIG.2)	28.0	27.0	13.5	4.0±1.0

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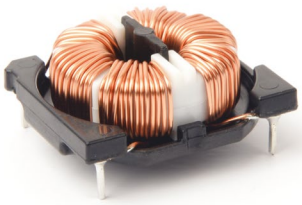
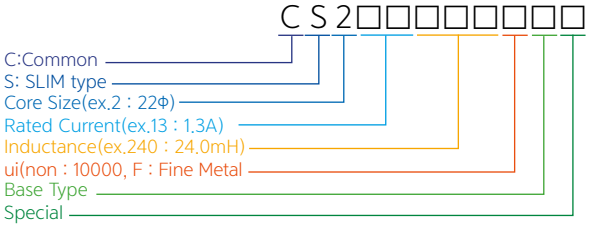
Common

SLIM 22Φ-SERIES



■ PRODUCT NAME MEANING

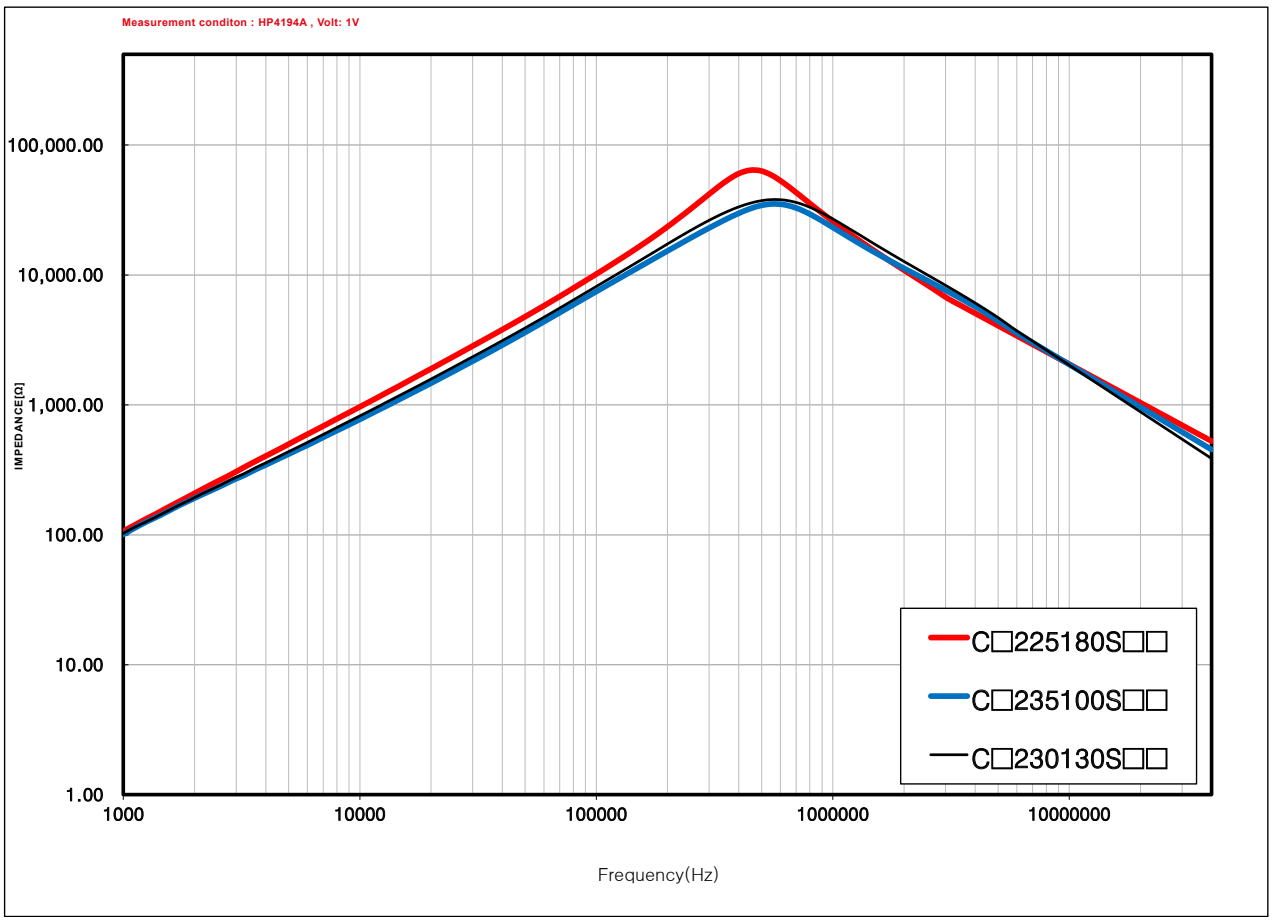


■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□225180S□□	2.5	18.0	179	300
C□230130S□□	3.0	13.0	126	300
C□235100S□□	3.5	10.0	105	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available



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■SHAPE AND DIMENSION

Fig.1 CS2G- SERIES

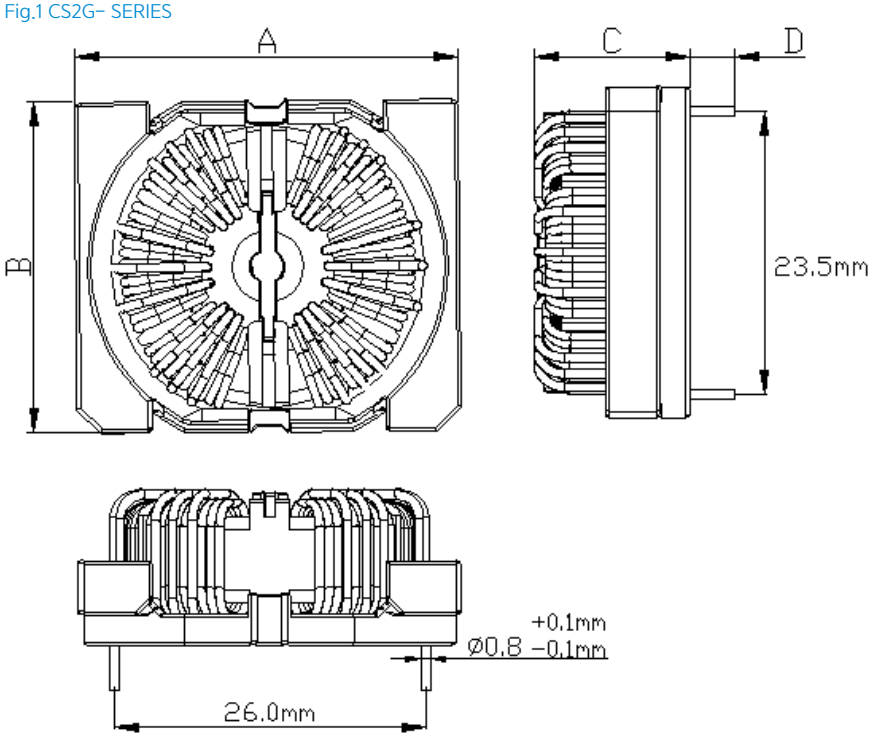
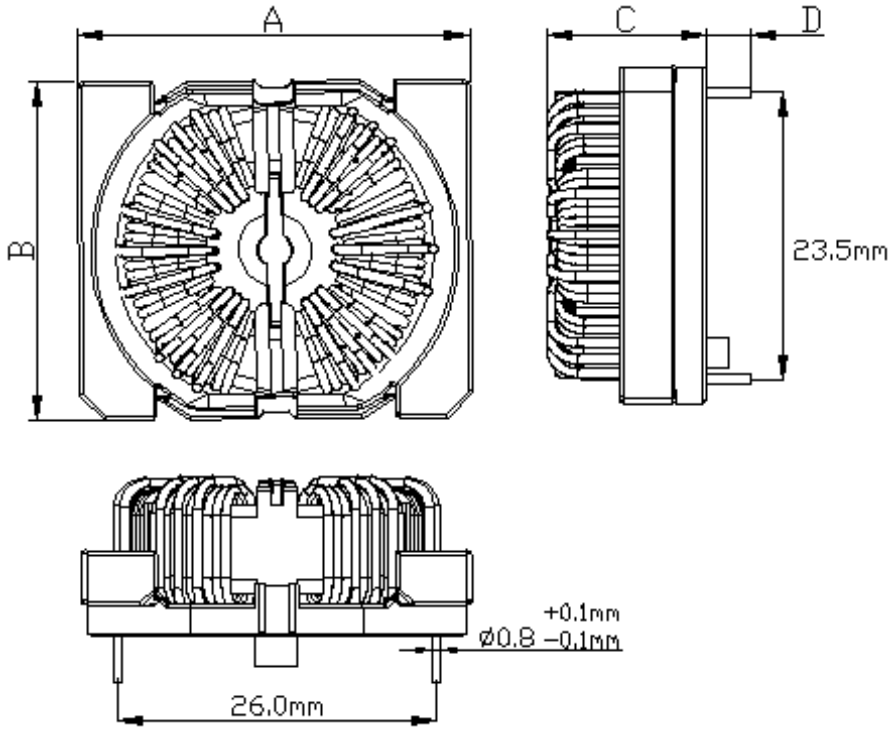


Fig.2 CS2T- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CS2G(FIG.1)	34.0	30.0	14.0	4.0±1.0
CS2T(FIG.2)	34.0	30.0	14.0	4.0±1.0

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Common

SLIM 25Φ-SERIES

■ PRODUCT NAME MEANING

C S 5□□□□□□□□

- C:Common
- S: SLIM type
- Core Size(ex.5 : 25Φ)
- Rated Current(ex.13 : 1.3A)
- Inductance(ex.240 : 24.0mH)
- ui(non : 10000, F : Fine Metal
- Base Type
- Special

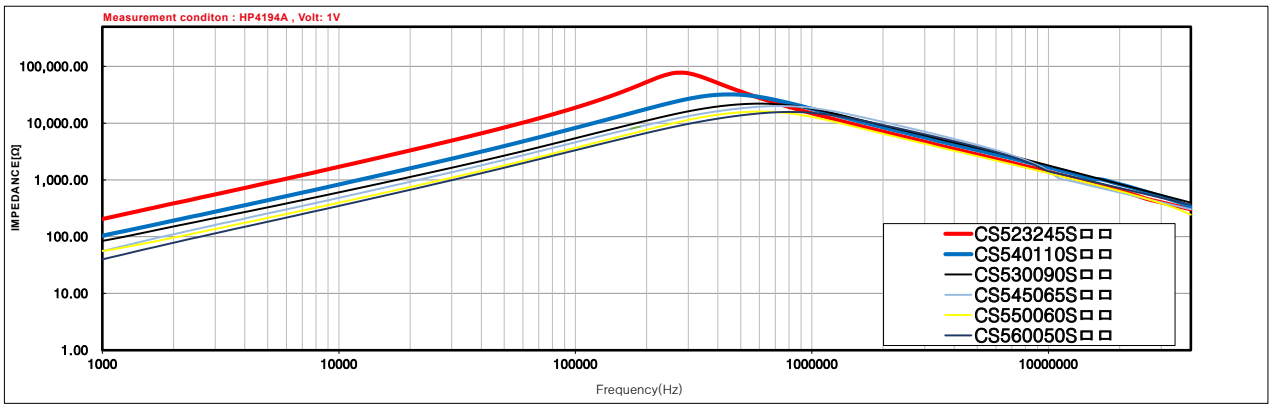
■ PART NUMBER AND SPECIFICATIONS

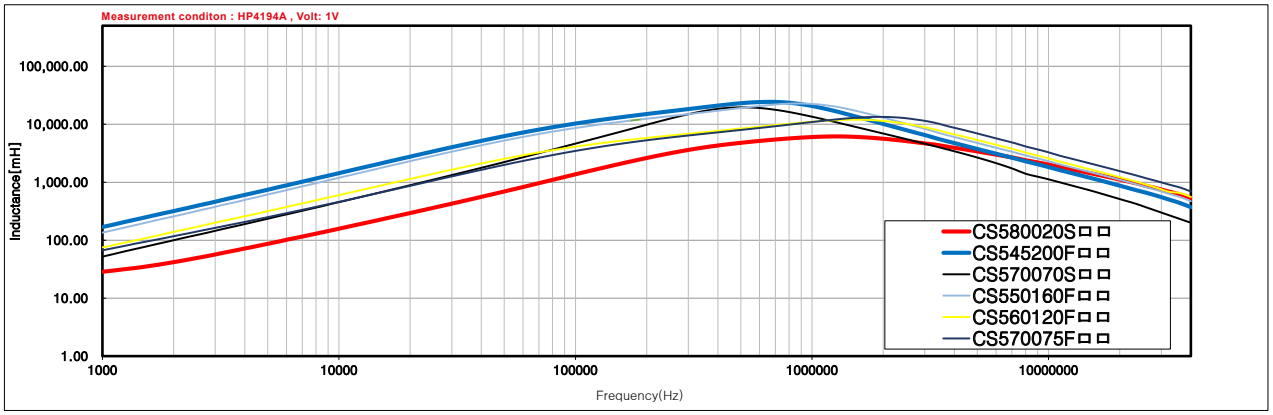
Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□523245S□□	2.3	24.5	170	300
C□530090S□□	3.0	9.0	107	300
C□540110S□□	4.0	11.0	85	300
C□545065S□□	4.5	6.5	53	300
C□550060S□□	5.0	6.0	61	300
C□560050S□□	6.0	5.0	44	300
C□580020S□□	8.0	2.0	18	300
C□570070S□□	7.0	7.0	37	300
C□545200F□□	4.5	20.0	55	300
C□550160F□□	5.0	16.0	44	300
C□560120F□□	6.0	12.0	30	300
C□570075F□□	7.0	7.5	25	300
C□580080F□□	8.0	8.0	23	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available





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■ SHAPE AND DIMENSION

Fig.1 CS5Q- SERIES

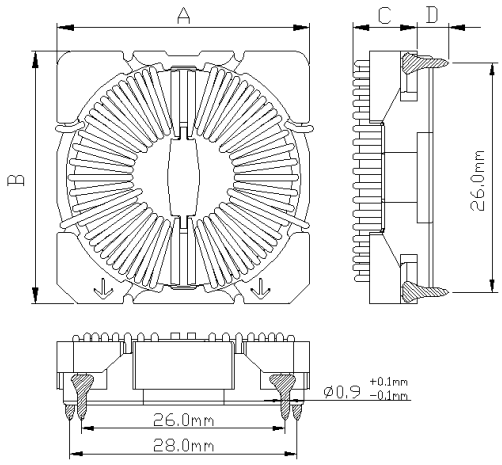


Fig.2 CS5R- SERIES

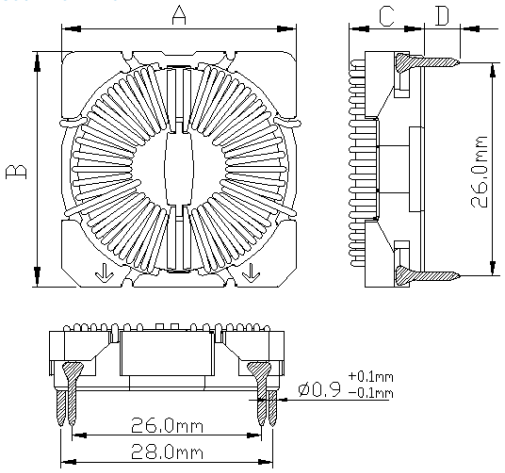


Fig.3 CS5G- SERIES

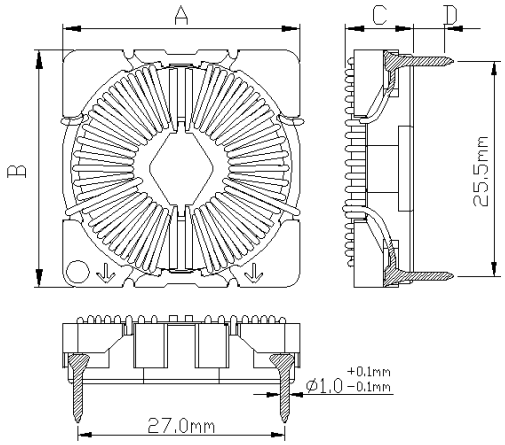


Fig.4 CS5D- SERIES

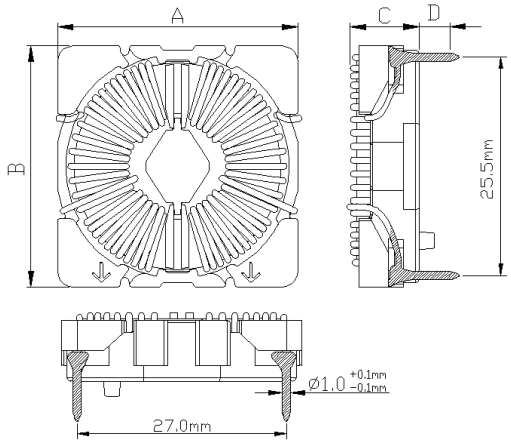


Fig.5 CS5K- SERIES

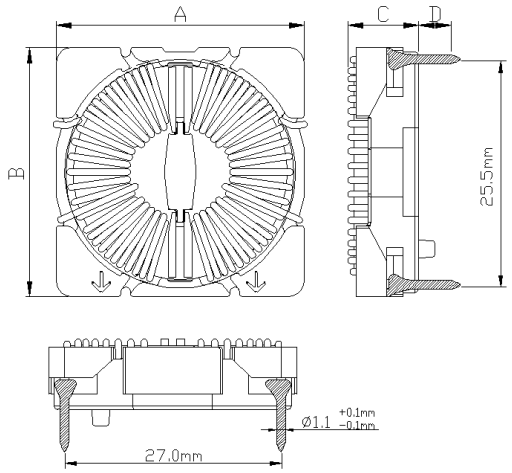
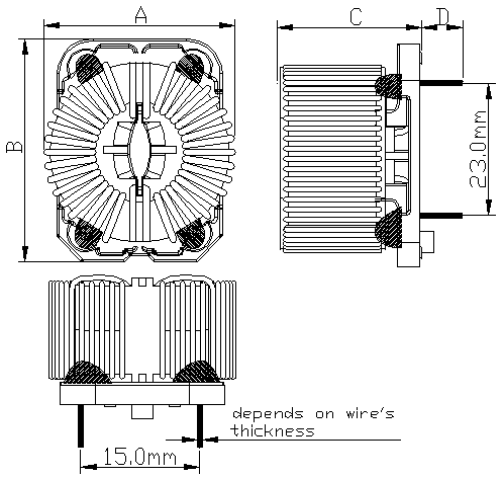


Fig.6 CS5A- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CS5Q(FIG.1)	34.0	33.0	13.0	0.2±0.5
CS5R(FIG.2)	34.0	33.0	13.0	4.0±1.0
CS5G(FIG.3)	34.0	34.0	11.0	4.0±1.0
CS5D(FIG.4)	34.0	34.0	13.0	4.0±1.0
CS5K(FIG.5)	34.0	34.0	13.0	4.0±1.0
CS5A(FIG.6)	33.0	33.0	14.0	4.0±1.0

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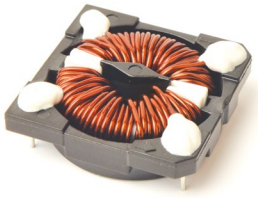
Common

SLIM 31Φ-SERIES



■ PRODUCT NAME MEANING

C S 1 □□□□□□□□

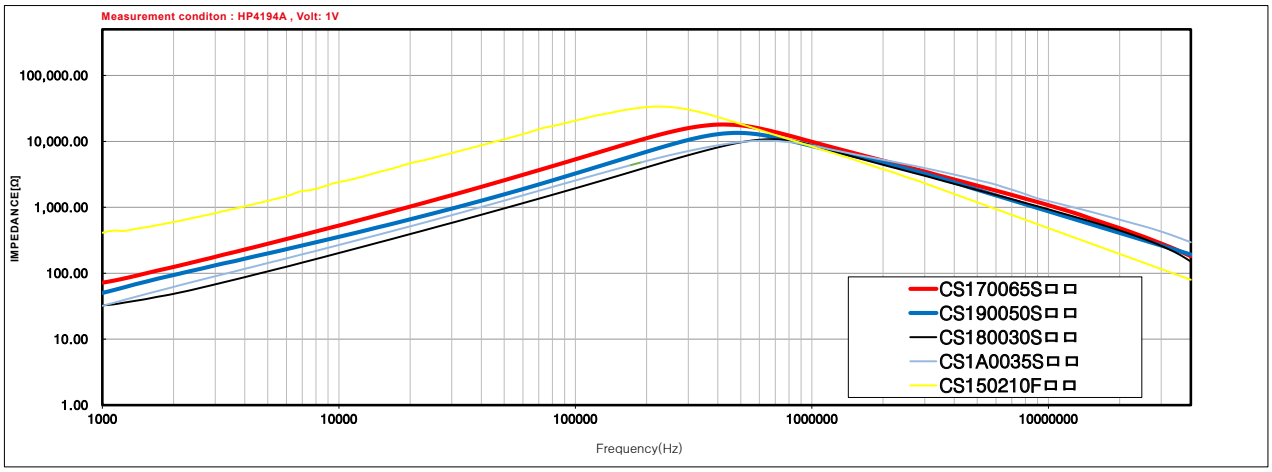
- C:Common
- S: SLIM type
- Core Size(ex.1 : 31Φ)
- Rated Current(ex.13 : 1.3A)
- Inductance(ex.240 : 24.0mH)
- ui(S : 10000, F : Fine Metal
- Base Type
- Special

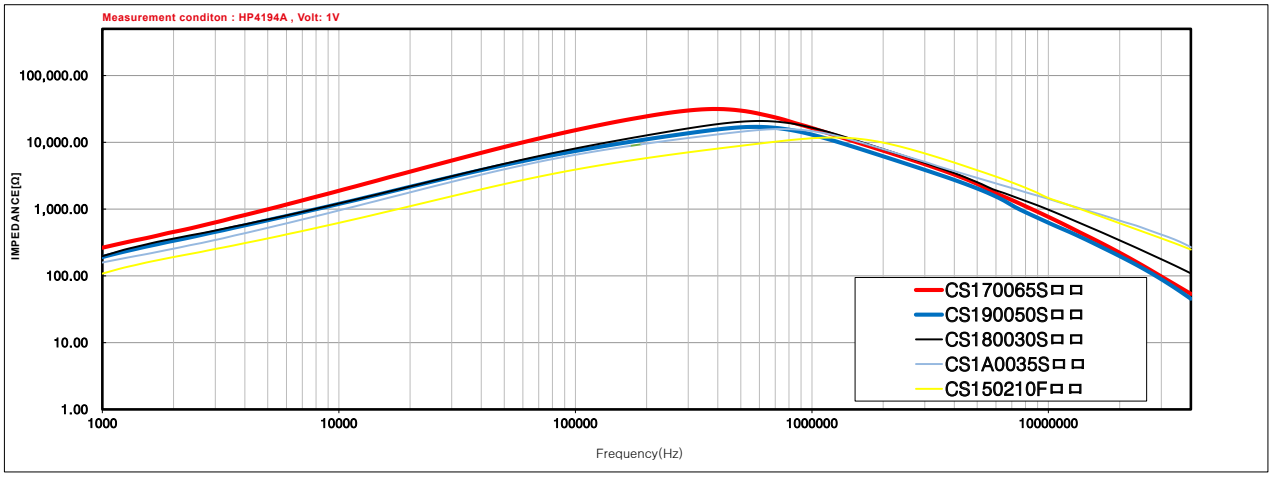
■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□170065S□□	7.0	6.5	26	300
C□180030S□□	8.0	3.0mH MIN	24	300
C□190050S□□	9.0	5.0	22	300
C□1A0035S□□	10.0	3.5	20	300
C□150210F□□	5.0	21.0	67	300
C□155160F□□	5.5	16.0	58	300
C□170100F□□	7.0	10.0	36	300
C□180080F□□	8.0	8.0	24	300
C□190070F□□	9.0	7.0	21	300
C□1A0050F□□	10.0	5.0	24	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available





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■ SHAPE AND DIMENSION

Fig.1 CS1B- SERIES

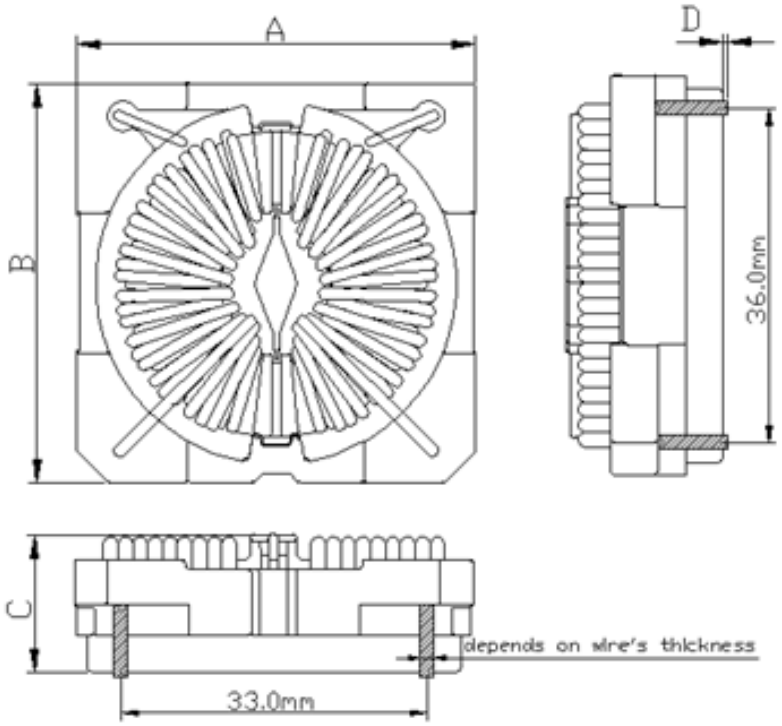
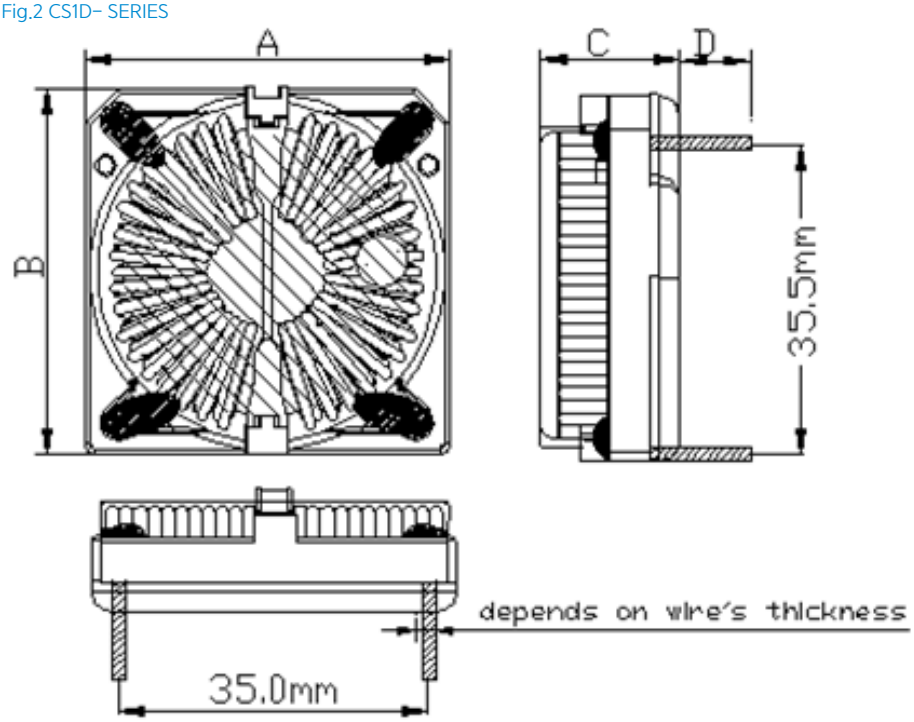


Fig.2 CS1D- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CS1B(FIG.1)	45.0	45.0	20.0	0.0±0.5
CS1D(FIG.2)	45.0	45.0	20.0	4.0±1.0

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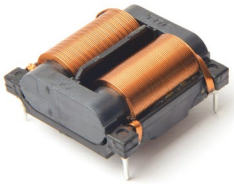
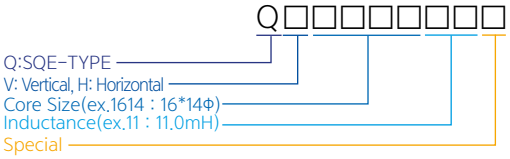
Common

FLAT WIRE-SERIES



■ PRODUCT NAME MEANING

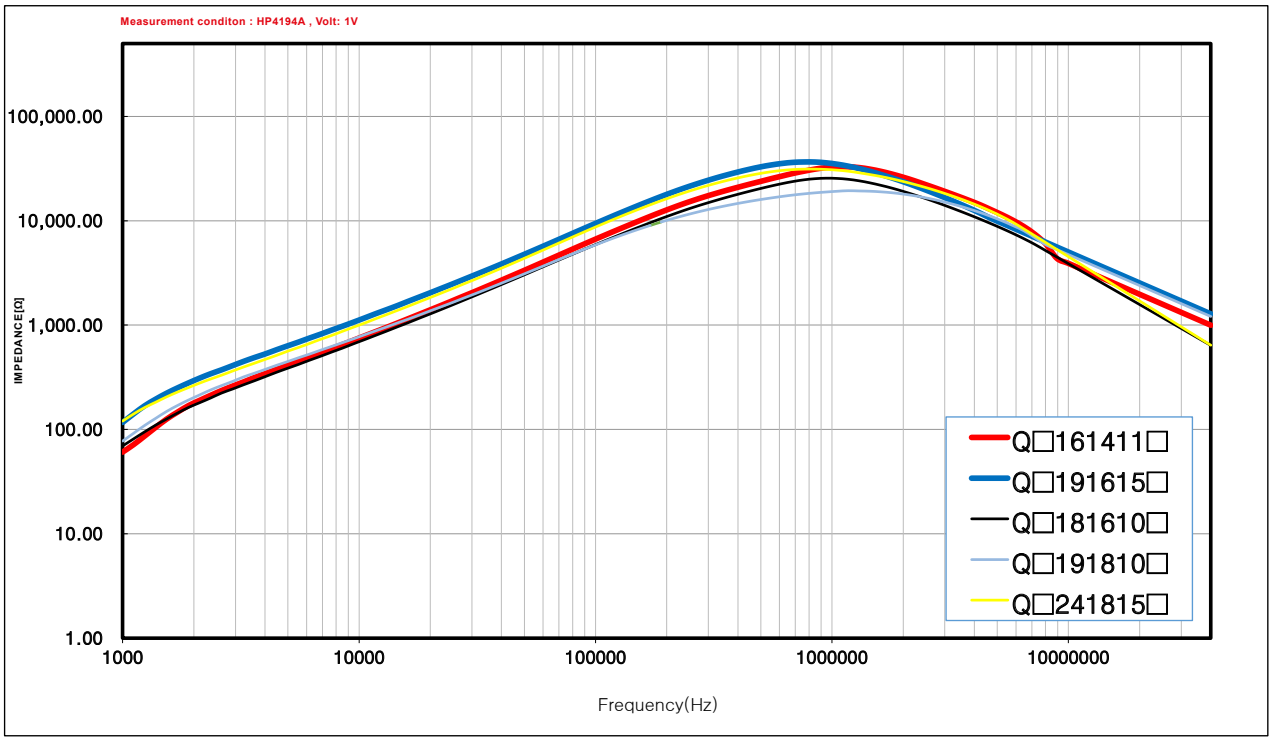


■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
Q□161411□	1.5	(100KHz) 7.7mH MIN	188	300
Q□181610□	2.0	(16KHz) 7.0mH MIN	156	300
Q□191615□	1.5	(16KHz) 10.5mH MIN	260	300
Q□191810□	2.3	(16KHz) 10mH	152	300
Q□241815□	3.0	(16KHz) 15mH	158	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available



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SHAPE AND DIMENSION

Fig.1 QV1614- SERIES

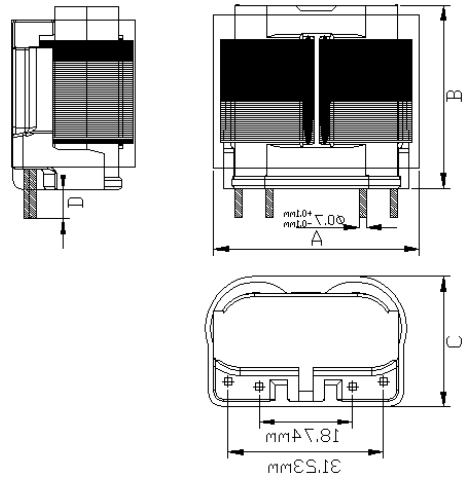


Fig.2 QV1816- SERIES

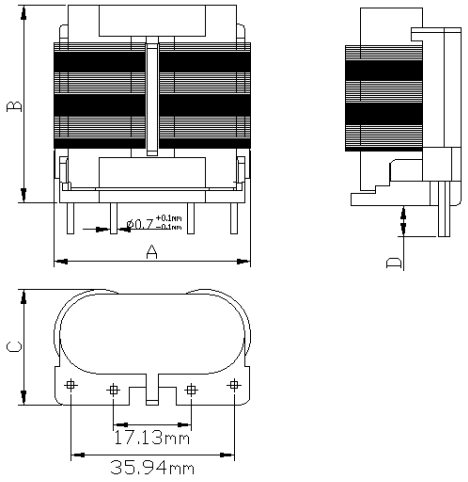


Fig.3 QH1816- SERIES

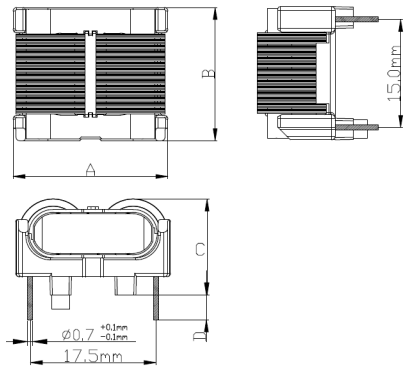


Fig.4 QV1916- SERIES

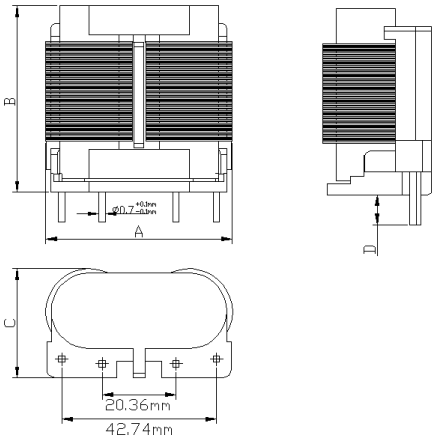
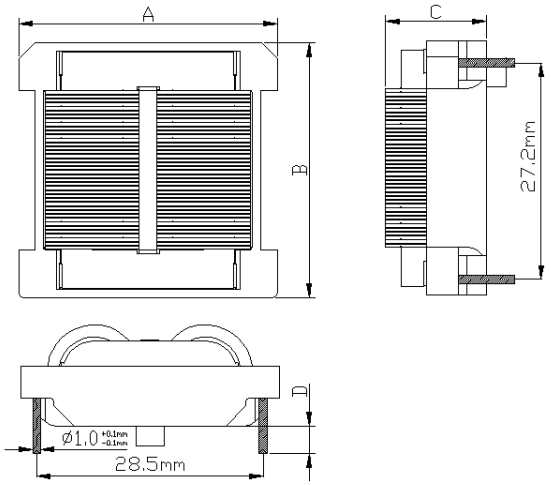


Fig.5 QH2418- SERIES



MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
QV1614(FIG.1)	21.0	18.5	14.0	3.0±1.0
QV1816(FIG.2)	25.0	19.5	16.0	4.0±1.0
QH1816(FIG.3)	22.5	19.5	14.5	4.0±1.0
QV1916(FIG.4)	25.0	22.0	16.0	4.0±1.0
QH2418(FIG.5)	30.0	27.0	13.5	4.0±1.0

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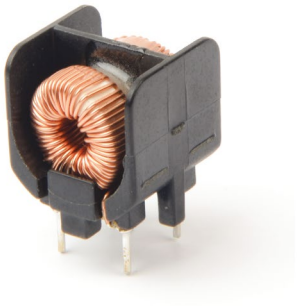
Normal

9Φ-SERIES



■ PRODUCT NAME MEANING

N□A090-□□□□□□□

- N:Normal
- V:Vertical, H:Horizontal
- Core Code
- Core Size(ex.090 : 9Φ)
- Rated Current(ex.15 : 1.5A)
- Inductance(ex.150 : 150uH)
- Base Type(T :Twin)
- Special

■ FEATURES

090-SERIES Line Filter series is compact in size. And Low Leakage of flux and vibration noise of gap-less structure.

■ APPLICATIONS

For smoothing switching power supplies / For normal mode line filter / For measuring instrument / For noise prevention of SMPS,TV,etc

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
N□□090-10260□□	1.0	260.0	522	300
N□□090-18085□□	4.0	85.0	181	300
N□□090-20080□□	40.0	80.0	120	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available

■ SHAPE AND DIMENSION

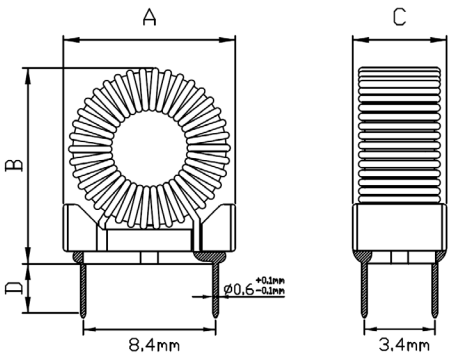


Fig.1 NVA090C- SERIES

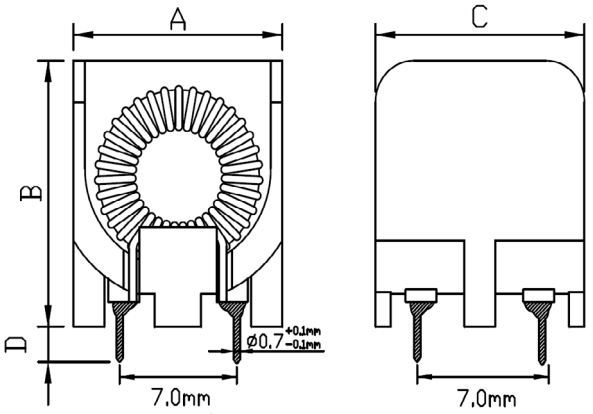


Fig.2 NVA090T- SERIES

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
NVA090C(FIG.1)	13.0	15.0	8.0	4.0±1.0
NVA090T(FIG.2)	15.0	17.0	15.0	4.0±1.0

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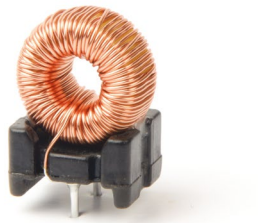
Normal

12.7Φ-SERIES



■ PRODUCT NAME MEANING

N□A127-□□□□□□□

N:Normal
V:Vertical, H:Horizontal
Core Code
Core Size(ex.127 : 12.7Φ)
Rated Current(ex.15 : 1.5A)
Inductance(ex.150 : 150uH)
Base Type(N: non base)
Special

■ FEATURES

127-SERIES Line Filter series is compact in size. And Low Leakage of flux and vibration noise of gap-less structure.

■ APPLICATIONS

For smoothing switching power supplies / For normal mode line filter / For measuring instrument / For noise prevention of SMPS,TV,etc

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
N□□127-15200□□	1.5	200.0	290	300
N□□127-15330□□	1.5	330.0	301	300
N□□127-20220□□	2.0	220.0	152	300

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
N□□127-40082□□	4.0	82.0	46	300
N□□127-45065□□	4.5	65.0	87	300
N□□127-D0004□□	40.0	4.0	1.2	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics. Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available

■ SHAPE AND DIMENSION

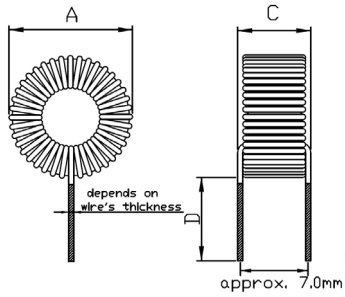


Fig.1
NVA127N- SERIES

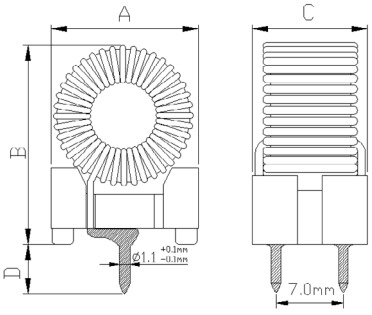


Fig.2
NVA127A- SERIES

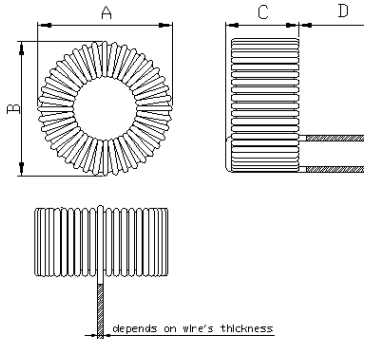


Fig.3
NHA127N- SERIES

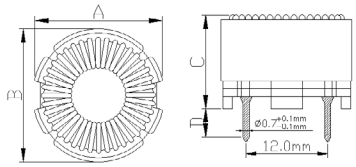


Fig.4
NHA127A- SERIES

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
NVA127N(FIG.1)	16.0	16.0	10.0	8.0±2.0
NVA127A(FIG.2)	18.0	22.0	14.0	4.0±1.0

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
NHA127N(FIG.3)	15.5	15.5	10.0	8.0±2.0
NHA127A(FIG.4)	16.0	16.0	10.0	4.0±1.0

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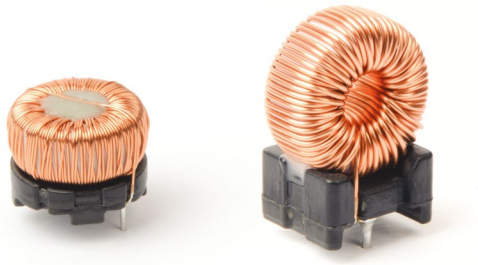
Normal

15Φ-SERIES



■ PRODUCT NAME MEANING

N□A150-□□□□□□□

- N:Normal
- V:Vertical, H:Horizontal
- Core Code
- Core Size(ex.150 : 15Φ)
- Rated Current(ex.15 : 1.5A)
- Inductance(ex.150 : 150uH)
- Base Type
- Special

■ FEATURES

150-SERIES Line Filter series is compact in size. And Low Leakage of flux and vibration noise of gap-less structure.

■ APPLICATIONS

For smoothing switching power supplies / For normal mode line filter / For measuring instrument / For noise prevention of SMPS,TV,etc

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
N□□150-10A00□□	1.0	1000.0	1152	300
N□□150-30300□□	3.0	300.0	196	300
N□□150-35200□□	3.5	200.0	109	300
N□□150-38150□□	3.8	150.0	80	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available

■ SHAPE AND DIMENSION

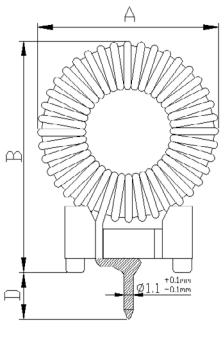


Fig.1 NVA150R- SERIES

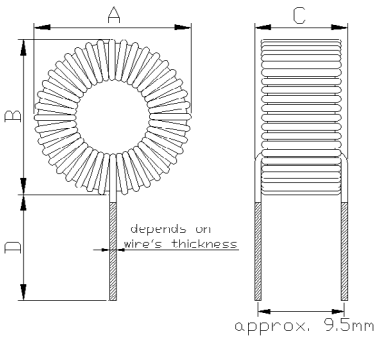


Fig.2 NVA150N- SERIES

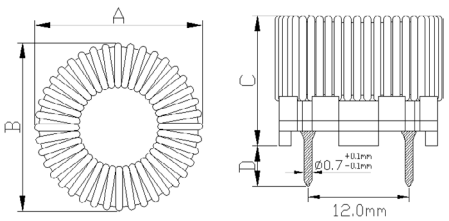


Fig.3 NHA150A- SERIES

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
NVA150R(FIG.1)	20.0	25.0	14.0	4.0±1.0
NVA150N(FIG.2)	19.0	19.0	12.0	8.0±2.0
NHA150A(FIG.3)	18.5	18.5	15.5	4.0±1.0

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Normal

17Φ-SERIES

■ PRODUCT NAME MEANING

N□A150-□□□□□□□

- N:Normal
- V:Vertical, H:Horizontal
- Core Code
- Core Size(ex.150 : 15Φ)
- Rated Current(ex.15 : 1.5A)
- Inductance(ex.150 : 150uH)
- Base Type
- Special

■ FEATURES

172-SERIES Line Filter series is compact in size. And Low Leakage of flux and vibration noise of gap-less structure.

■ APPLICATIONS

For smoothing switching power supplies / For normal mode line filter / For measuring instrument / For noise prevention of SMPS,TV,etc

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
N□□172-80033□□	8.0	33.0	24	300
N□□172-90045□□	9.0	45.0	20	300
N□□172-30670□□	3.0	670.0	122	300

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
N□□175-25400□□	2.5	400.0	218	300
N□□175-30200□□	3.0	200.0	140	300
N□□175-70045□□	7.0	45.0	32	300
N□□175-50045□□	5.0	45.0	38	300
N□□175-55140□□	5.5	140.0	53	300
N□□175-65080□□	6.5	80.0	57	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available

■ SHAPE AND DIMENSION

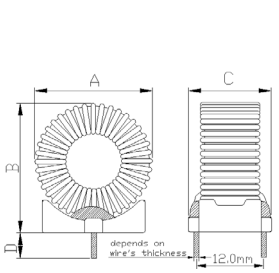

Fig.1 NVS172A- SERIES

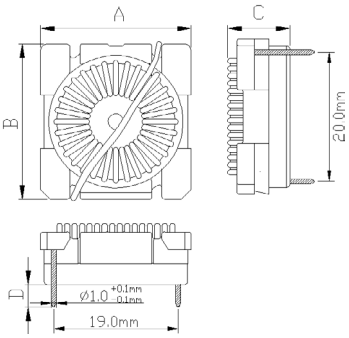

Fig.2 NHS172E- SERIES

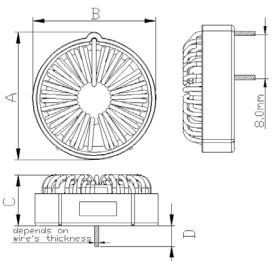

Fig.3 NHS172A- SERIES

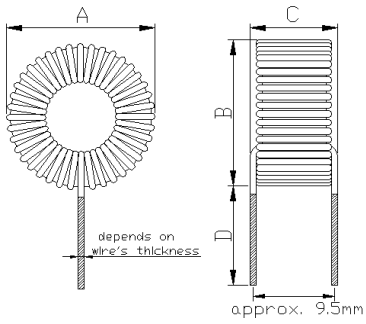

Fig.4 NVA175N- SERIES

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
NVS172A(FIG.1)	22.0	23.0	18.0	4.0±1.0
NHS172E(FIG.2)	25.0	25.0	12.0	4.0±1.0

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
NHS172A(FIG.3)	23.5	23.5	12.0	4.0±1.0
NVA175N(FIG.4)	28.0	28.0	17.0	15.0±5.0

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Normal

20Φ-SERIES

■ PRODUCT NAME MEANING

N□A200-□□□□□□□

- N:Normal
- V:Vertical, H:Horizontal
- Core Code
- Core Size(ex.200 : 20Φ)
- Rated Current(ex.15 : 1.5A)
- Inductance(ex.150 : 150uH)
- Base Type
- Special

■ FEATURES

200-SERIES Line Filter series is compact in size. And Low Leakage of flux and vibration noise of gap-less structure.

■ APPLICATIONS

For smoothing switching power supplies / For normal mode line filter / For measuring instrument / For noise prevention of SMPS,TV,etc

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
N□□200-30450□□	3.5	450.0	140	300
N□□200-50200□□	5.0	200.0	67	300
N□□200-60150□□	6.0	150.0	41	300
N□□200-60110□□	6.0	110.0	43	300
N□□200-65130□□	6.5	130.0	39	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available

■ SHAPE AND DIMENSION

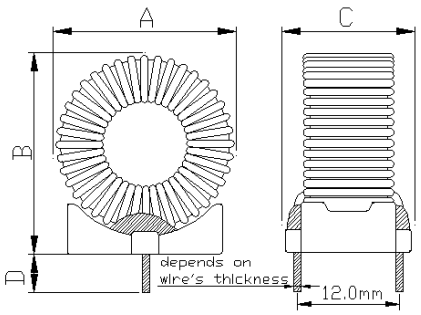

Fig.1 NVA200A- SERIES

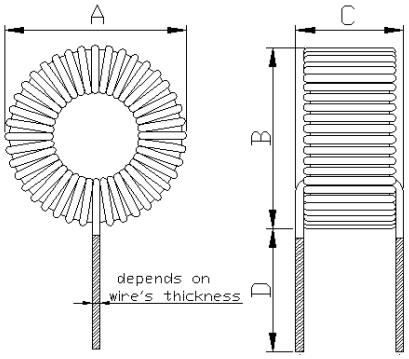

Fig.2 NVA200N- SERIES

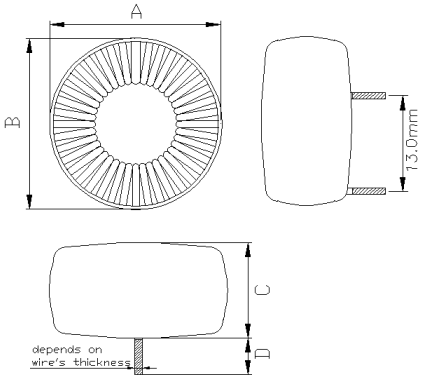

Fig.3 NHA200N- SERIES

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
NVA200A(FIG.1)	27.0	27.0	16.0	4.0±1.0
NVA200N(FIG.2)	27.0	27.0	14.0	15.0±5.0
NHA200N(FIG.3)	27.0	27.0	14.0	15.0±5.0

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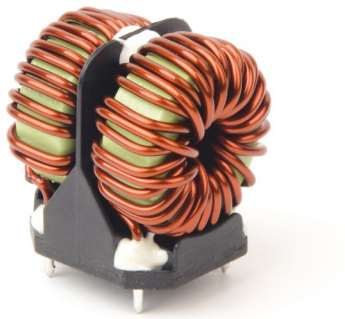
Normal

27Φ-SERIES



■ PRODUCT NAME MEANING

N□A270-□□□□□□□

- N:Normal
- V:Vertical, H:Horizontal
- Core Code
- Core Size(ex.270 : 27Φ)
- Rated Current(ex.15 : 1.5A)
- Inductance(ex.150 : 150uH)
- Base Type
- Special

■ FEATURES

270-SERIES Line Filter series is compact in size. And Low Leakage of flux and vibration noise of gap-less structure.

■ APPLICATIONS

For smoothing switching power supplies / For normal mode line filter / For measuring instrument / For noise prevention of SMPS,TV,etc

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
N□□270-40013□□	4.0	1300.0	142	300
N□□270-50500□□	5.0	500.0	66	300
N□□270-70300□□	7.0	300.0	38	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available

■ SHAPE AND DIMENSION

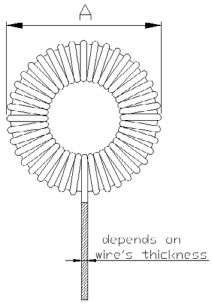


Fig.1 NVB270N- SERIES

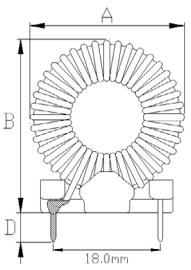


Fig.2 NVA270K- SERIES

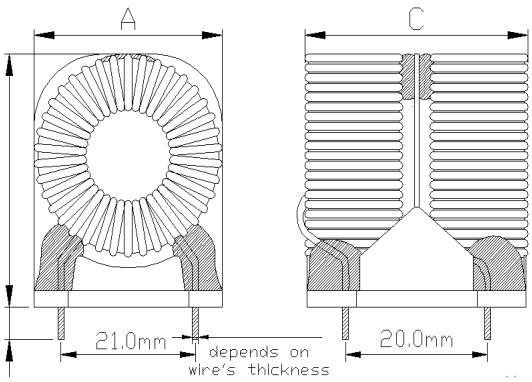


Fig.3 NVB270D- SERIES

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
NVB270N(FIG.1)	33.0	33.0	22.0	15.0±5.0
NVA270K(FIG.2)	33.0	35.0	25.0	4.0±1.0
NVB270D(FIG.3)	40.0	40.0	45.0	4.0±1.0

For safety and the proper usage, you are requested to approve our product specification
This contents subject to change without advance notice. Please check with our sales or R&D before ordering.

Normal

33Φ-SERIES

■ PRODUCT NAME MEANING

N□S330-□□□□□□

- N:Normal / V:Vertical, H:Horizontal
- Core Code
- Core Size(ex.330 : 33Φ)
- Rated Current(ex.30 : 3.0A)
- Inductance(ex.A87 : 1870uH)
- Base Type
- Special

■ FEATURES

330-SERIES Line Filter series is compact in size. And Low Leakage of flux and vibration noise of gap-less structure.

■ APPLICATIONS

For smoothing switching power supplies / For normal mode line filter / For measuring instrument / For noise prevention of SMPS,TV,etc

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
N□□330-30A87□□	3.0	1870.0	350	300
N□□330-80260□□	8.0	260.0	49	300
N□□330-80300□□	8.0	300.0	40	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available

■ SHAPE AND DIMENSION

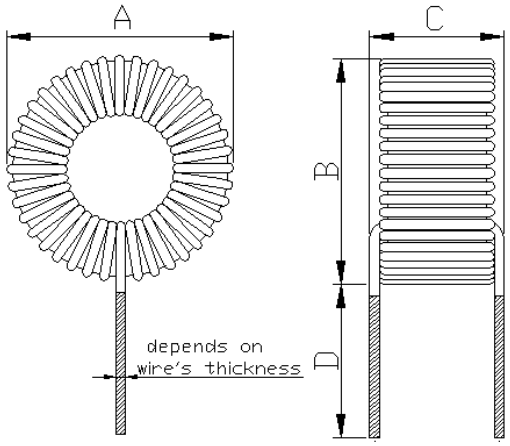


Fig.1 NVS330N- SERIES

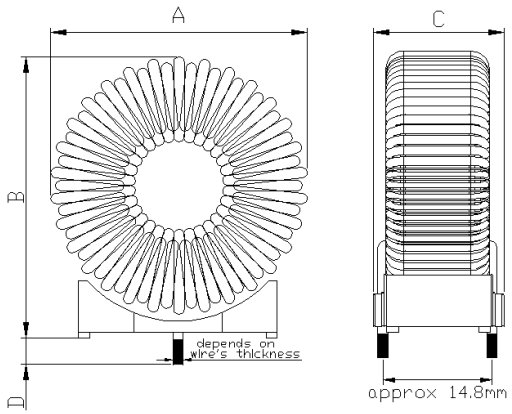


Fig.2 NVS330B- SERIES

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
NVS330N(FIG.1)	38.0	38.0	15.0	15.0±5.0
NVS330B(FIG.2)	40.0	42.0	20.0	5.0±1.0

For safety and the proper usage, you are requested to approve our product specification
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Normal

EV-SERIES

■ PRODUCT NAME MEANING

E□0□□□□□□□□

- N:Normal
- V:Vertical, H:Horizontal
- Core Code(ex.0 :10Φ)
- Rated Current(ex. 15 : 1.5A)
- Inductance(ex. 150 : 150uH)
- Core Type
- Base Type
- Special

■ FEATURES

EV-SERIES Line Filter series is compact in size. And Low Leakage of flux and vibration noise of gap-less structure.
This product is often used to connect primary or secondary ground to Earth

■ APPLICATIONS

For smoothing switching power supplies / For normal mode line filter / For measuring instrument / For noise prevention of SMPS,TV,etc

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
E□0B0005N□□	20.0	5.0	4	300
E□0B00018N□□	20.0	18.0	6	300
E□1B0080S□□	20.0	80.0	9	300

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics. Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- UL94V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available
- Halogen free available

■ SHAPE AND DIMENSION

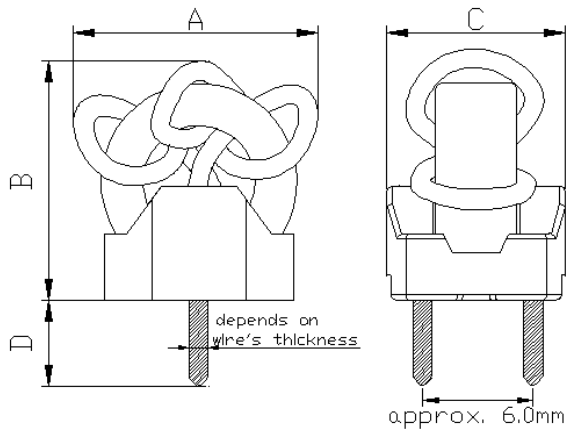

Fig.1 EV0A- SERIES

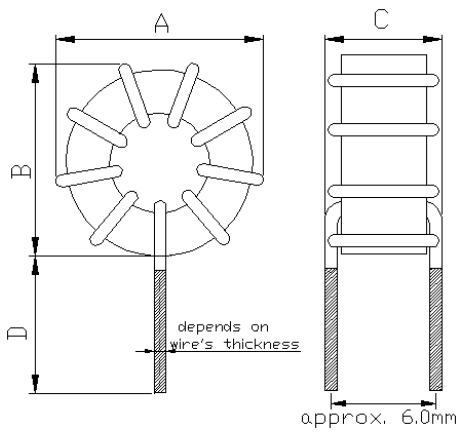

Fig.2 EV0N- SERIES

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
EV0□A(FIG.1)	15.0	14.9	11.0	4.0±1.0
EV0□N(FIG.2)	15.0	14.0	9.0	8.0±2.0

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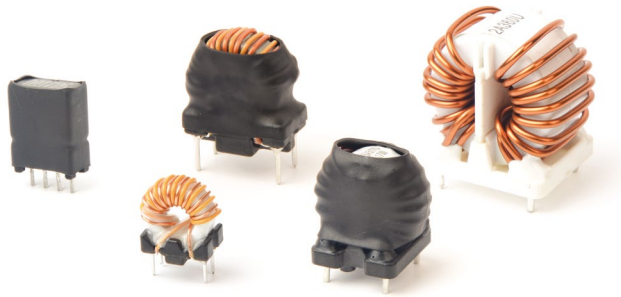
Automotive

ACV SERIES



■ PRODUCT NAME MEANING

A□□□□-□□□□□

A:Automotive
N:Normal, C:Common
V:Vertical, H:Horizontal, M:SMD, S:Slim
Core Size(ex.10 : 10Φ)
Inductance(ex.031 : 31uH)
Special

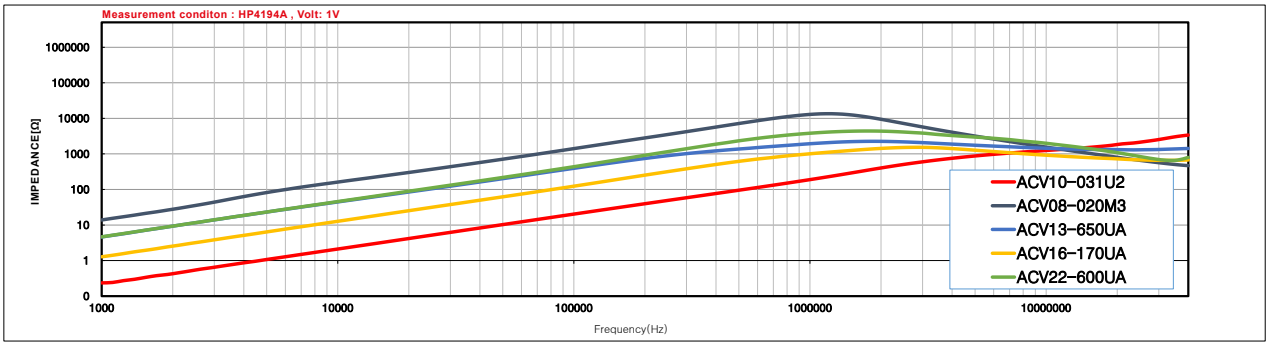
■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
ACV08-020M3	0.5	2000.0	400	DC 30
ACV10-031U2	4.0	31.0	21	DC 120
ACV13-650UA	4.0	650.0	34	DC 100
ACV16-170UA	15.0	170.0	8	DC 450
ACV22-600UA	13.0	600.0	12	DC 450

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -40℃ to 130℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- Automotive Apply
- AEC-Q200 Reliability Test Complete
- UL94 V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available

■ IMPEDANCE CHARACTERISTIC GRAPH



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■ SHAPE AND DIMENSION

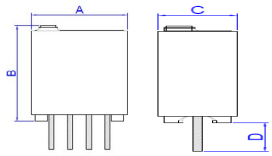

Fig.1 Automotive - ACV SERIES

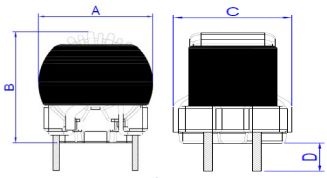

Fig.2

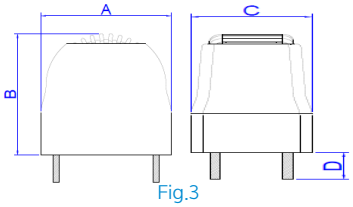

Fig.3

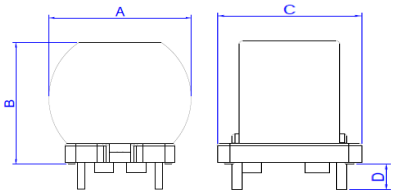

Fig.4

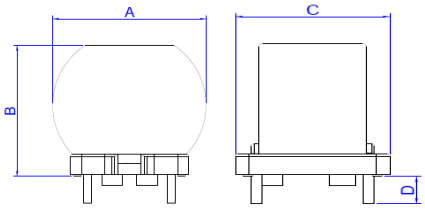

Fig.5

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
Automotive(FIG.1)	13.0	15.5	8.0	4.0±1.0
Automotive(FIG.2)	14.0	15.0	11.0	3.2±0.5
Automotive(FIG.3)	18.0	20.0	11.0	3.8±0.5

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
Automotive (FIG.4)	23.0	21.0	19.0	3.5±0.5
Automotive (FIG.5)	29.0	29.0	22.5	3.5±0.5

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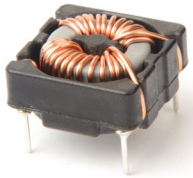
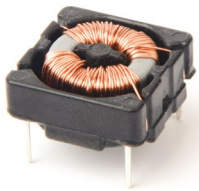
Automotive

ACH SERIES





■ PRODUCT NAME MEANING

A□□□□-□□□□□

A:Automotive
N:Normal, C:Common
V:Vertical, H:Horizontal, M:SMD, S:Slim
Core Size(ex.19 : 19Φ)
Inductance(ex.080 : 60uH MIN)
Special

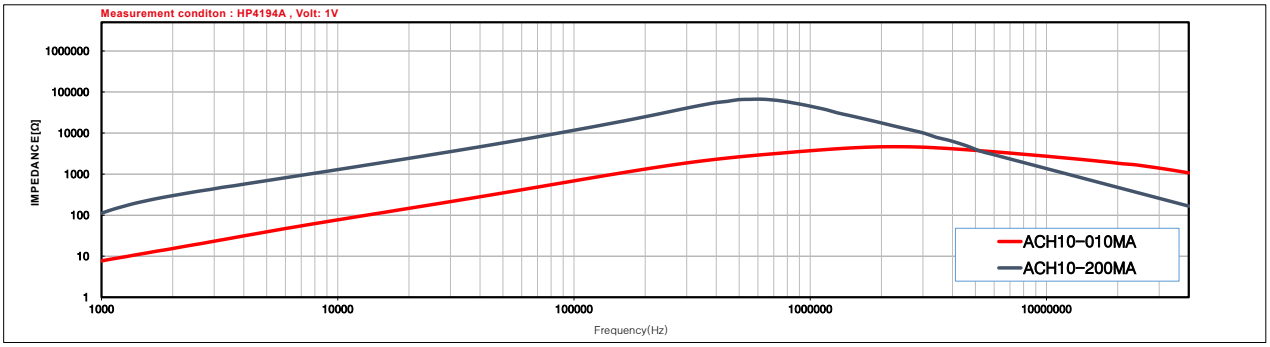
■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
ACH10-010MA	2.5	1.0	3.6	DC 300
ACH10-200MA	0.5	20.0	1194	DC 250

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -40℃ to 105℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- Automotive Apply
- AEC-Q200 Reliability Test Complete
- UL94 V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available

■ IMPEDANCE CHARACTERISTIC GRAPH



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■ SHAPE AND DIMENSION

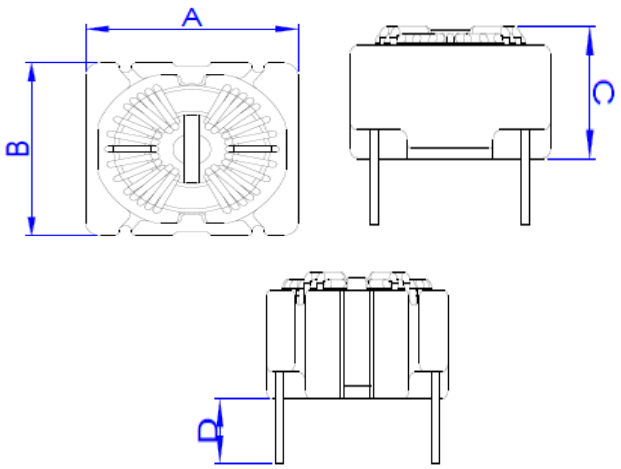

Fig.1 Automotive - ACH SERIES

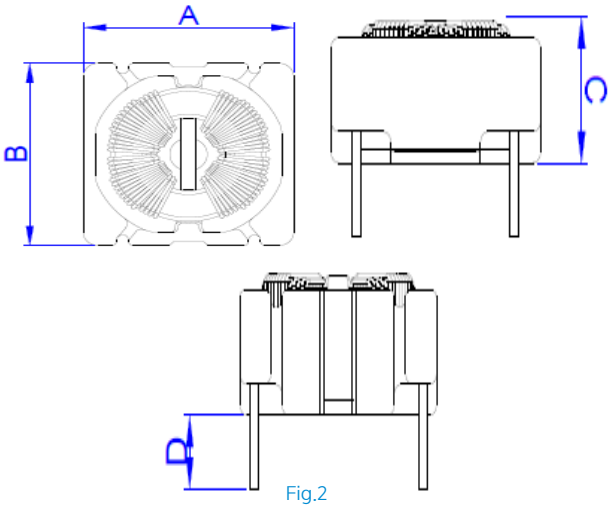

Fig.2

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
Automotive(FIG.1)	14.5	14.5	8.0	4.0±1.0
Automotive(FIG.2)	14.5	14.5	8.0	4.0±1.0

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Automotive

ACS SERIES

■ PRODUCT NAME MEANING

A□□□□-□□□□□

A:Automotive
N:Normal, C:Common
V:Vertical, H:Horizontal, M:SMD, S:Slim
Core Size(ex.19 : 19Φ)
Inductance(ex.080 : 60uH MIN)
Special

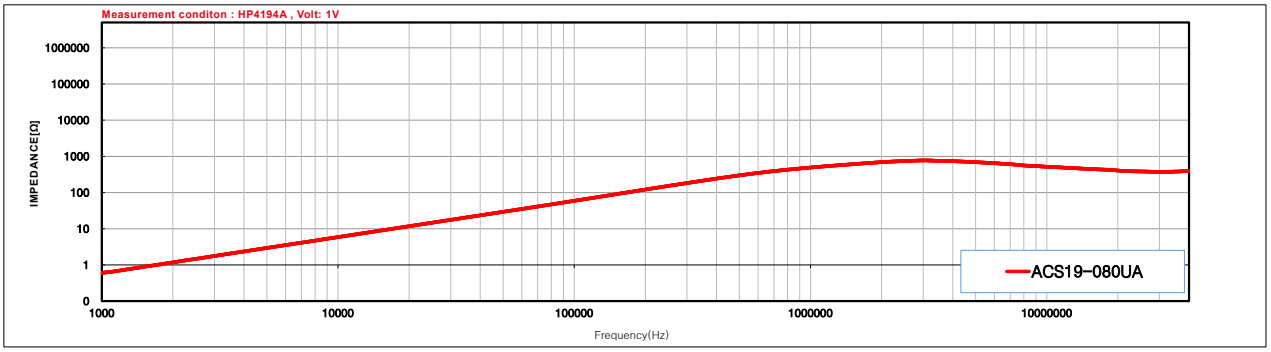
■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
ACS19-080UA	20.0	80.0	4	DC 400

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -40℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- Automotive Apply
- AEC-Q200 Reliability Test Complete
- UL94 V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available

■ IMPEDANCE CHARACTERISTIC GRAPH



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■ SHAPE AND DIMENSION

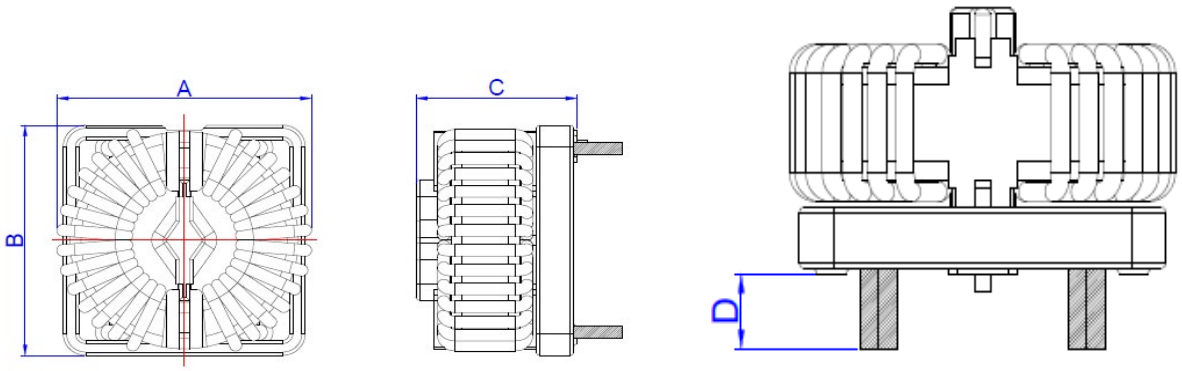

Fig.1 Automotive - ACH SERIES

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
Automotive(FIG.1)	26.0	24.0	16.5	4.1±1.0

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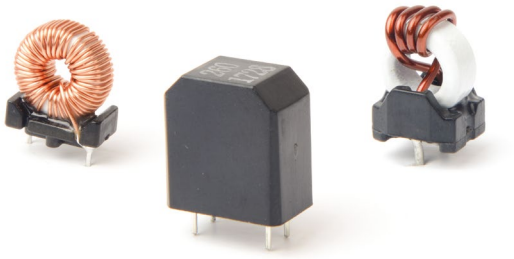
Automotive

ANV SERIES



■ PRODUCT NAME MEANING

A□□□□-□□□□□

A:Automotive
N:Normal, C:Common
V:Vertical, H:Horizontal, M:SMD, S:Slim
Core Size(ex.08 : 8Φ)
Inductance(ex.260 : 260uH)
Special

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
ANV09-080U2	2.0	80.0	120	DC 120
ANV09-260UA	1.0	260.0	522.0	DC 450
ANV10-007UA	13.0	7.5	6	DC 100

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -40℃ to 130℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- Automotive Apply
- AEC-Q200 Reliability Test Complete
- UL94 V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available

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This contents subject to change without advance notice. Please check with our sales or R&D before ordering.

■ SHAPE AND DIMENSION

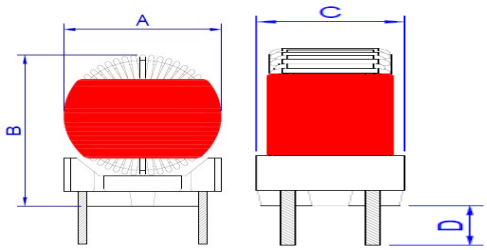

Fig.1 Automotive - ANV SERIES

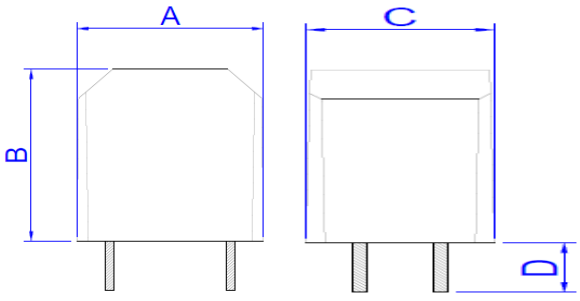

Fig.2

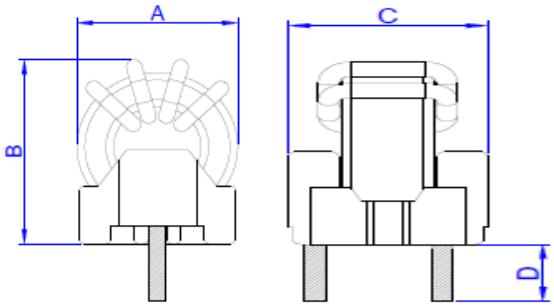

Fig.3

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
Automotive(FIG.1)	13.0	15.0	8.0	3.4±0.5
Automotive(FIG.2)	14.0	15.0	8.5	3.4±0.5
Automotive(FIG.3)	12.0	15.0	10.5	4.0±1.0

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Automotive

ANH SERIES

■ PRODUCT NAME MEANING

A□□□□-□□□□□

A:Automotive
N:Normal, C:Common
V:Vertical, H:Horizontal, M:SMD, S:Slim
Core Size(ex.10 : 10Φ)
Inductance(ex.031 : 31uH)
Special

■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
ANH13-045UA	4.0	45.0	67	DC 300
ANH33-010UA	60.0	10.5	1.05	DC 300
ANH33-010UB	60.0	10.5	1.05	DC 120

Notice
- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -40℃ to 120℃
- Winding Temperature Rise(at Rated Current)is under 55℃
- Rising temperature is affected by PCB condition and an amount of harmonics.
  Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- Automotive Apply
- AEC-Q200 Reliability Test Complete
- UL94 V-0 certified resin used
- Pb-free solder used
- RoHS free
- Custom made Products are also available

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■ SHAPE AND DIMENSION

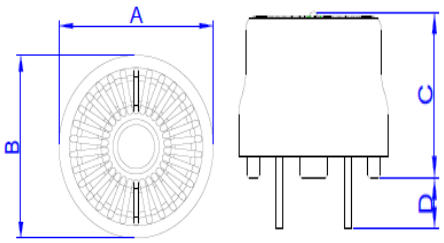
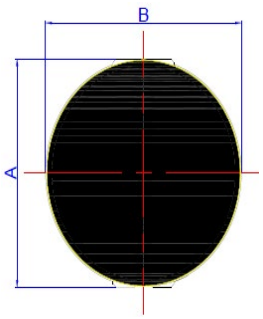


Fig.1 Automotive - ANV SERIES



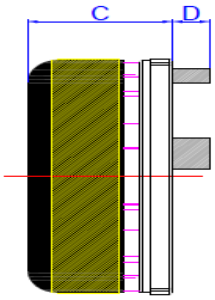
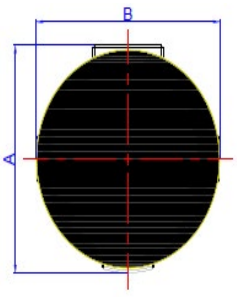


Fig.2



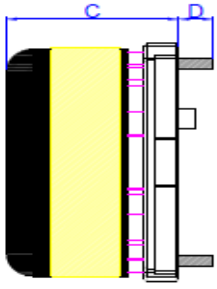


Fig.3

MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
Automotive(FIG.1)	18.5	18.5	13.5	3.8±0.5
Automotive(FIG.2)	42.0	42.1	22.0	5.0±0.5
Automotive(FIG.3)	42.6	44.5	22.2	5.0±1.0

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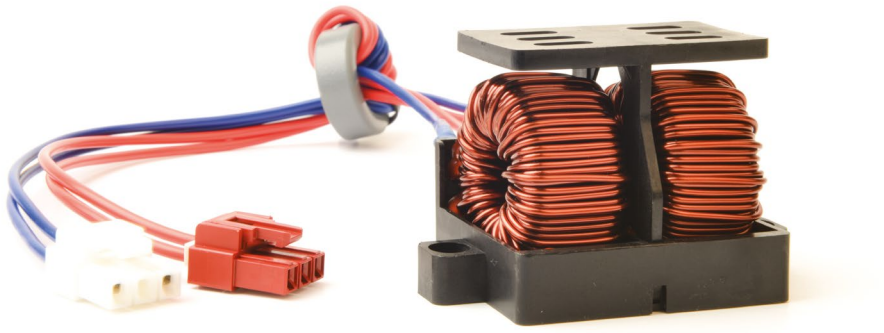
REACTOR

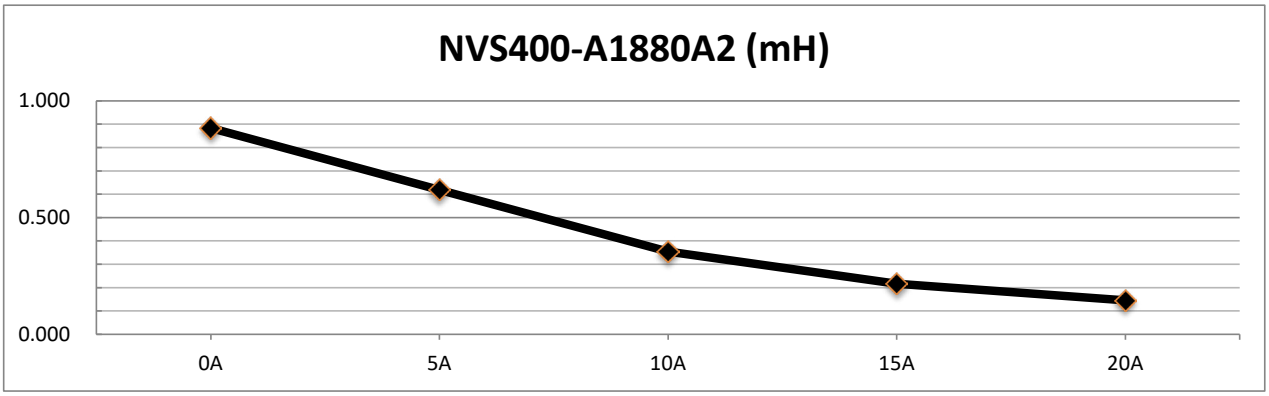
NVS400-A1880A2



■ STANDARD SPECIFICATIONS

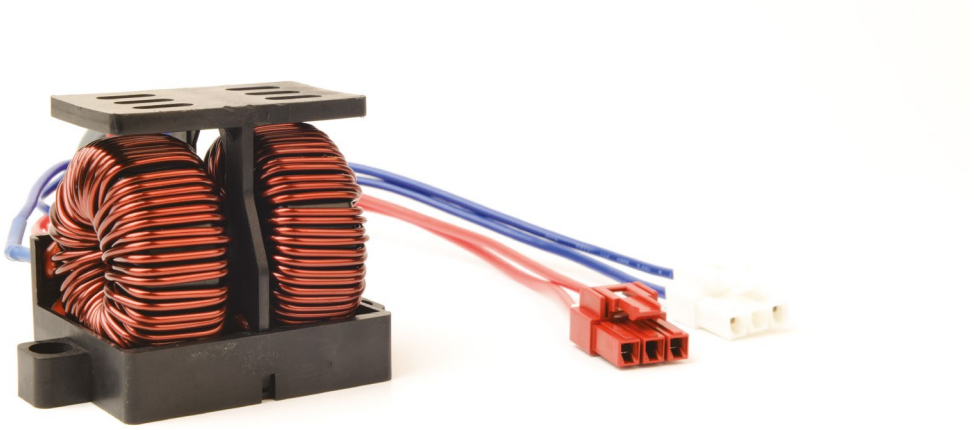
Part No.	NVS400-A1880A2
Division	DC
Capacity	3KW
Form	Toroidal
L (mH)	0.880
Current(A)	11
Wire Φ	1.50

NVS400-A1880A2	DC-BIAS
0A	0.883
5A	0.618
10A	0.354
15A	0.216
20A	0.145



REACTOR

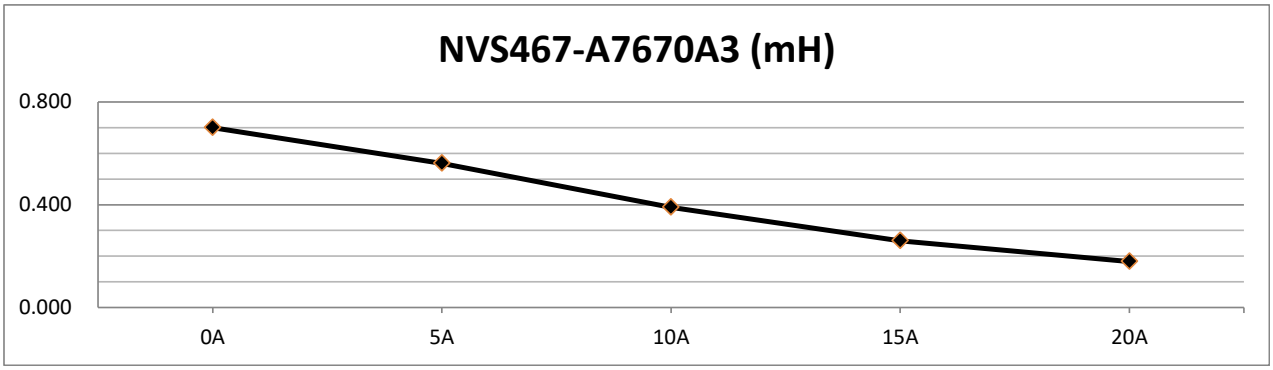
NVS467-A7670A3



■ STANDARD SPECIFICATIONS

Part No.	NVS467-A7670A3
Division	DC
Capacity	4KW
Form	Toroidal
L (mH)	0.670
Current(A)	17
Wire Φ	1.80

	DC-BIAS
Turns	70
0A	0.700
5A	0.561
10A	0.390
15A	0.260
20A	0.179



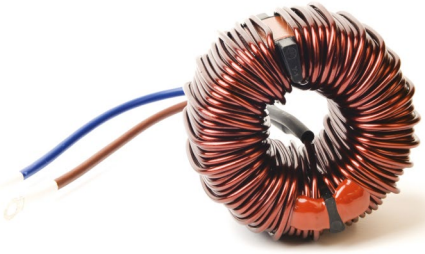
REACTOR

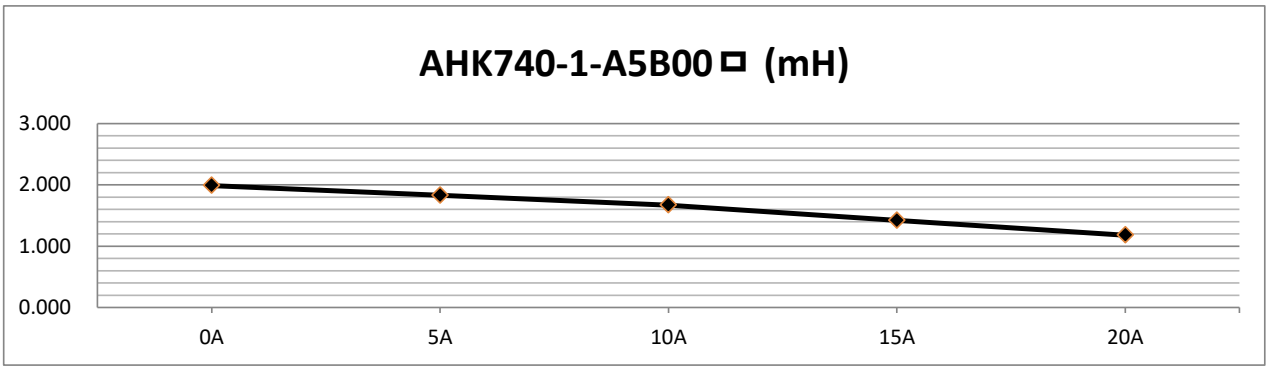
AHK740-1-A5B00□

STANDARD SPECIFICATIONS

Part No.	AHK740-1-A5B00□
Division	DC
Capacity	3KW
Form	Toroidal
L (mH)	2.000
Current(A)	15
Wire Φ	2.50

	DC-BIAS
Turns	98
0A	1.990
5A	1.830
10A	1.670
15A	1.420
20A	1.180





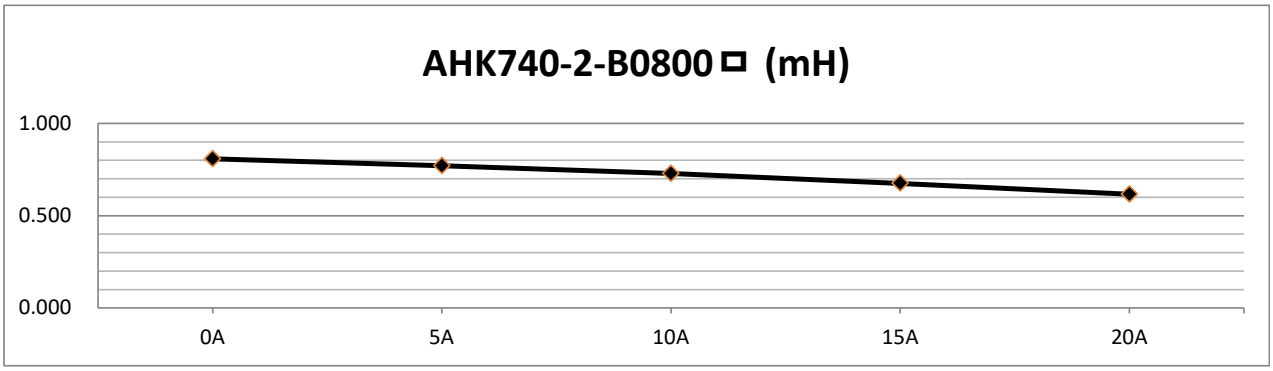
REACTOR

AHK740-2-B0800□

■ STANDARD SPECIFICATIONS

Part No.	AHK740-2-B0800□
Division	AC
Capacity	3KW
Form	Toroidal
L (mH)	0.800
Current(A)	20
Wire Φ	2.30

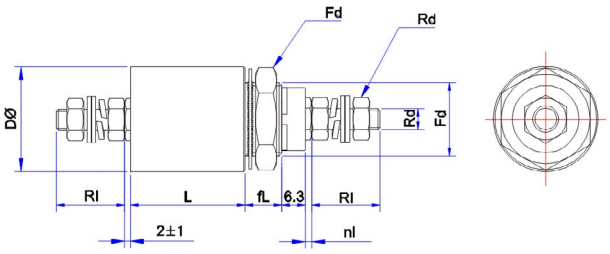
	DC-BIAS
Turns	59
0A	0.808
5A	0.770
10A	0.728
15A	0.675
20A	0.616



FEEDTHROUGH FILM CAPACITORS

FLS series

* Metalized polypropylene film capacitors
* Operating temperature : -45℃ ~ +85℃
* Nickel plated metal case
* Nickel plated brass terminals
* Epoxy resin filled. Flame retardant UL94-V0
* ROHS compliant



■ TECHNICAL CHARACTERISTICS AND DIMENSION

type no	current	capacitance	Rated Voltage		Test Voltage	Leakage current	Dimension (mm)						
	(A.max)	(μF)	(Vdc)	(Vac)	(Vdc)	(mA/60Hz)	DΦ	L	FdΦ(FN)	fL	RdΦ(RN)	Rl	nl
FLSB-3AR010MB	32A	0.01μF	1,000	440	3,000	1.7	20	19	14	8	M4	13	2±1
FLSB-3AR022MB		0.022μF	1,000	440	3,000	3.6	20	19	14	8	M4	13	2±1
FLSB-3AR047MB		0.047μF	1,000	250	2,500	4.4	20	19	14	8	M4	13	2±1
FLSB-2A0100MB		1.0μF	200	100	500	37.7	20	33	14	8	M4	13	2±1
FLSC-3AR100M2	75A	0.1μF	1,000	250	2,500	9.4	30	21	18	10	M6	17	3±1
FLSC-2HR100MB		0.1μF	1,000	440	3,000	110/400Hz	30	31	18	10	M6	17	3±1
FLSC-3AR220MB		0.22μF	1,000	250	2,500	20.7	30	31	18	10	M6	17	3±1
FLSC-3AR470MB		0.47μF	1,000	250	2,500	44.3	30	35	18	10	M6	17	3±1
FLSC-2D0100M2		1.0μF	1,000	250	2,500	94.2	30	45	18	10	M6	17	3±1
FLSD-3AR220MB	100A	0.22μF	1,000	250	2,500	20.7	30	31	18	10	M8	20	4±1
FLSD-3AR470MB		0.47μF	1,000	250	2,500	44.3	53	31	32	15	M8	20	4±1
FLSD-3A0100MB		1.0μF	1,000	250	2,500	94.2	53	31	32	15	M8	20	4±1
FLSD-3A2R20MB		2.2μF	1,000	250	2,500	207.3	53	45	32	15	M8	20	4±1
FLSE-3AR470MB	200A	0.47μF	1,000	250	2,500	44.3	53	33	32	15	M10	25	5±1
FLSE-3A0100MB		1.0μF	1,000	250	2,500	94.2	53	33	32	15	M10	25	5±1
FLSE-3A2R20MB		2.2μF	1,000	250	2,500	207.3	53	47	32	15	M10	25	5±1
FLSF-3AR470MB	300A	0.47μF	1,000	250	2,500	44.3	53	35	32	15	M12	31	6±1
FLSF-3A0100MB		1.0μF	1,000	250	2,500	94.2	53	35	32	15	M12	31	6±1
FLSF-3A2R20MB		2.2μF	1,000	250	2,500	207.3	53	49	32	15	M12	31	6±1
FLSG-3AR470MB	400A	0.47μF	1,000	250	2,500	44.3	53	38	32	15	M16	36	8±1
FLSG-3A0100MB		1.0μF	1,000	250	2,500	94.2	53	38	32	15	M16	36	8±1
FLSG-3A2R20MB		2.2μF	1,000	250	2,500	207.3	53	52	32	15	M16	36	8±1
FLSH-3AR470MB	500A	0.47μF	1,000	250	2,500	44.3	53	41	32	15	M18	45	9±1
FLSH-3A0100MB		1.0μF	1,000	250	2,500	94.2	53	45	32	15	M18	45	9±1
FLSH-3A2R20MB		2.2μF	1,000	250	2,500	207.3	53	55	32	15	M18	45	9±1

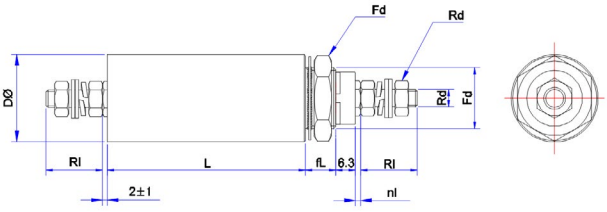
■ INSERTION LOSS

FLS Series (dB)							
	10kHz	100kHz	1MHz	10MHz	100MHz	300MHz	1GHz
0.01μF	-	-	4	20	30	45	70
0.02μF	-	-	10	20	35	55	80
0.05μF	-	1	15	35	45	60	80
0.1μF	-	5	20	30	60	80	90
0.2μF	-	10	28	40	70	90	90
0.47μF	2	15	35	45	80	90	90
1.0μF	5	25	45	50	85	90	90
2.2μF	10	30	50	55	90	90	90
4.7μF	15	35	55	65	90	90	90

FEEDTHROUGH FILM CAPACITORS

FPC series

* Metalized polypropylene film capacitors
* Operating temperature : -45℃ ~ +85℃
* Nickel plated metal case
* Nickel plated brass terminals
* Epoxy resin filled. Flame retardant UL94-V0
* ROHS compliant



■ TECHNICAL CHARACTERISTICS AND DIMENSION

type no	current	capacitance	Rated Voltage		Test Voltage	Leakage current	Dimension (mm)						
	(A.max)	(μF)	(Vdc)	(Vac)	(Vdc)	(mA/60Hz)	DΦ	L	FdΦ(FN)	fL	RdΦ(RN)	Rl	nl
FPCB-2KR010MB	32A	0.01μF×2	600	250	2,500	1.9	20	45	M14	8	M4	10	2±1
FPCB-2KR022MB		0.022μF×2	600	250	2,500	4.2	20	45	M14	8	M4	10	2±1
FPCB-2KR047MB		0.047μF×2	600	250	2,500	9	20	45	M14	8	M4	10	2±1
FPCC-2KR100M2	75A	0.1μF×2	600	250	2,500	19	30	80	M18	10	M6	17	3±1
FPCC-2KR220MB		0.22μF×2	600	250	2,500	42	30	80	M18	10	M6	17	3±1
FPCC-2KR470MB		0.47μF×2	600	250	2,500	89	30	80	M18	10	M6	17	3±1
FPCC-2K0100M2		1.0μF×2	600	250	2,500	190	30	80	M18	10	M6	17	3±1
FPCD-2KR220MB	100A	0.22μF×2	600	250	2,500	42	53	97	M32	15	M8	20	4±1
FPCD-2KR470MB		0.47μF×2	600	250	2,500	89	53	97	M32	15	M8	20	4±1
FPCD-2K0100MB		1.0μF×2	600	250	2,500	190	53	97	M32	15	M8	20	4±1
FPCD-2K2R20MB		2.2μF×2	600	250	2,500	415	53	97	M32	15	M8	20	4±1
FPCE-2KR470MB	200A	0.47μF×2	600	250	2,500	89	53	97	M32	15	M10	25	5±1
FPCE-2K0100MB		1.0μF×2	600	250	2,500	190	53	97	M32	15	M10	25	5±1
FPCE-2K2R20MB		2.2μF×2	600	250	2,500	415	53	97	M32	15	M10	25	5±1
FPCF-2KR470MB	300A	0.47μF×2	600	250	2,500	89	53	97	M32	15	M12	31	6±1
FPCF-2K0100MB		1.0μF×2	600	250	2,500	190	53	97	M32	15	M12	31	6±1
FPCF-2K2R20MB		2.2μF×2	600	250	2,500	415	53	97	M32	15	M12	31	6±1
FPCG-2KR470MB	400A	0.47μF×2	600	250	2,500	89	53	97	M32	15	M16	36	8±1
FPCG-2K0100MB		1.0μF×2	600	250	2,500	190	53	97	M32	15	M16	36	8±1
FPCG-2K2R20MB		2.2μF×2	600	250	2,500	415	53	97	M32	15	M16	36	8±1
FPCH-2KR470MB	500A	0.47μF×2	600	250	2,500	89	53	97	M32	15	M18	45	9±1
FPCH-2K0100MB		1.0μF×2	600	250	2,500	190	53	97	M32	15	M18	45	9±1
FPCH-2K2R20MB		2.2μF×2	600	250	2,500	415	53	97	M32	15	M18	45	9±1

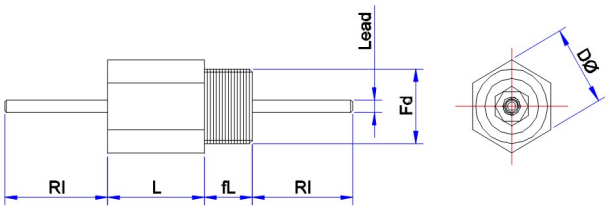
■ INSERTION LOSS

FPC Series (dB)							
	10kHz	100kHz	1MHz	10MHz	100MHz	300MHz	1GHz
0.01μF×2	-	-	4	25	55	70	90
0.02μF×2	-	-	11	30	55	80	90
0.05μF×2	-	1	17	35	60	80	90
0.1μF×2	2	10	45	90	100	100	100
0.2μF×2	3	20	50	90	100	100	100
0.5μF×2	5	30	70	90	100	100	100
1.0μF×2	10	40	70	100	100	100	100
2.2μF×2	15	50	90	100	100	100	100
4.7μF	15	35	55	65	90	90	90

FEEDTHROUGH FILM CAPACITORS

FLM series

* Metalized polypropylene film capacitors
* Operating temperature : -45℃ ~ +85℃
* Nickel plated metal case
* Nickel plated brass terminals
* Epoxy resin filled. Flame retardant UL94-V0
* ROHS compliant
* For DC Motor Line Filter



■ TECHNICAL CHARACTERISTICS AND DIMENSION

type no	current	capacitance	Rated Voltage	Test Voltage	Dimension (mm)								
	(A.max)	(μF)	(Vdc)	(Vdc)	DΦ	L	FdΦ(FN)	fL	Lead(ø)	Rl	RdΦ(RN)	Rl	nl
FLMA-2AR010M	10A	0.01μF	100	600	13	16	12	8	2	10	M4	13	2±1
FLMA-2AR020M		0.02μF	100	600	13	16	12	8	2	10	M4	13	2±1
FLMA-2AR100M		0.1μF	100	300	13	16	12	8	2	10	M4	13	2±1
FLMA-2AR200M		0.2μF	100	300	16	16	15	8	2	13	M4	13	2±1
FLMA-2AR260M		0.26μF	100	300	16	16	15	8	2	13	M6	17	3±1

■ INSERTION LOSS

FLM Series (dB)							
	10kHz	100kHz	1MHz	10MHz	100MHz	300MHz	1GHz
0.01μF	-	-	4	20	30	40	70
0.02μF	-	-	11	20	35	50	70
0.1μF	-	5	20	40	60	70	70
0.2μF	-	10	28	45	70	80	80
0.26μF	2	10	30	47	70	80	80

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