

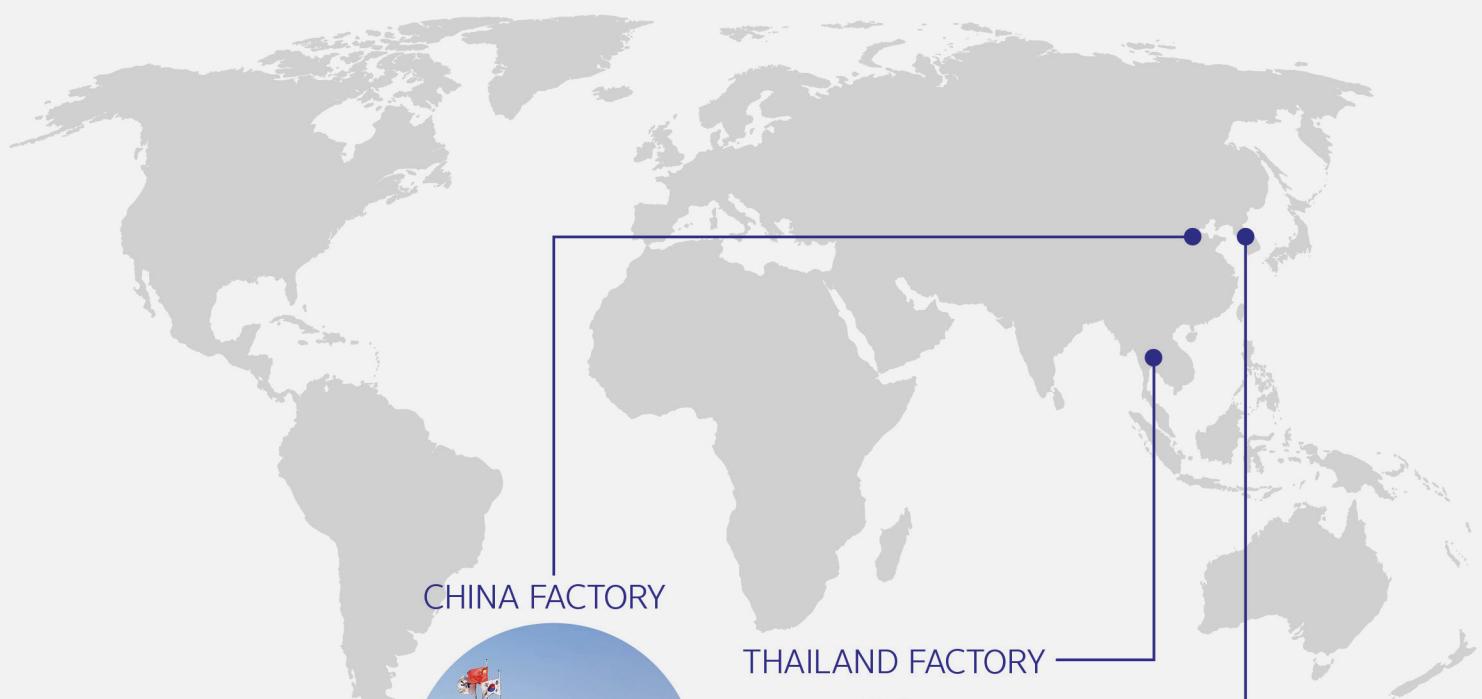
Create The Future By Technology Innovation

2018

Product Catalogue



TNC



Expert in developing components to filter
electromagnetic waves



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

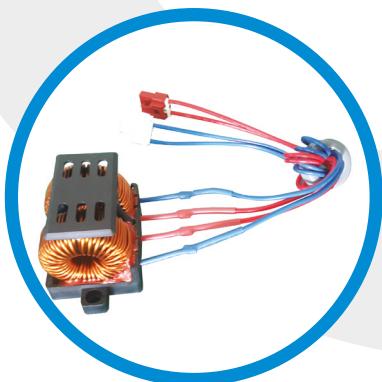


LINE FILTER
TROIDAL 7Φ ~ 100Φ

TNC Co.,
Ltd.



FEEDTHROUGH
FILM CAPACITORS
10A ~ 500A



REACTOR
AC/DC 1A ~ 100A



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

LINE FILTER

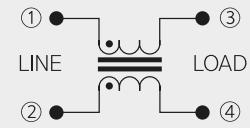


PCB mounting type for EMI measure part which can apply on electric product.
We have various size from 7Φ to 100Φ, and also produce and design toroidal coil.
Application: LED light, adapter, TV, solar inverter...

COMMON COIL



ToROIDAL
7Φ ~ 100Φ
CURRENT
0.5A ~ 200A



NORMAL COIL



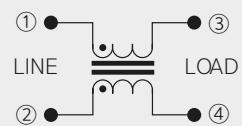
ToROIDAL
7Φ ~ 1000Φ
CURRENT
0.5A ~ 200A



AUTOMATION COIL



Rectangular
CURRENT
0.5A ~ 5A



AUTOMOTIVE COIL



CURRENT
1A ~ 200A

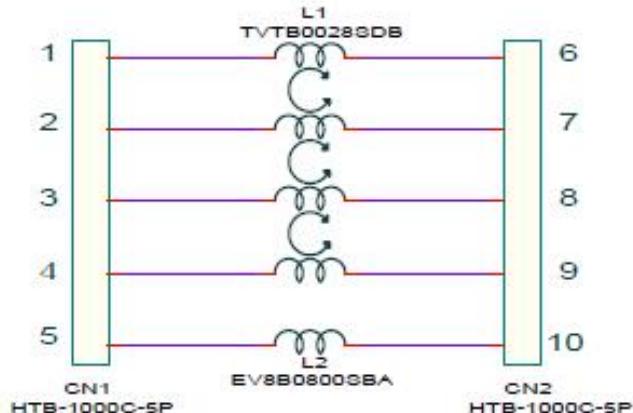


FILTER ASS'Y

<TPBA-B0-003>



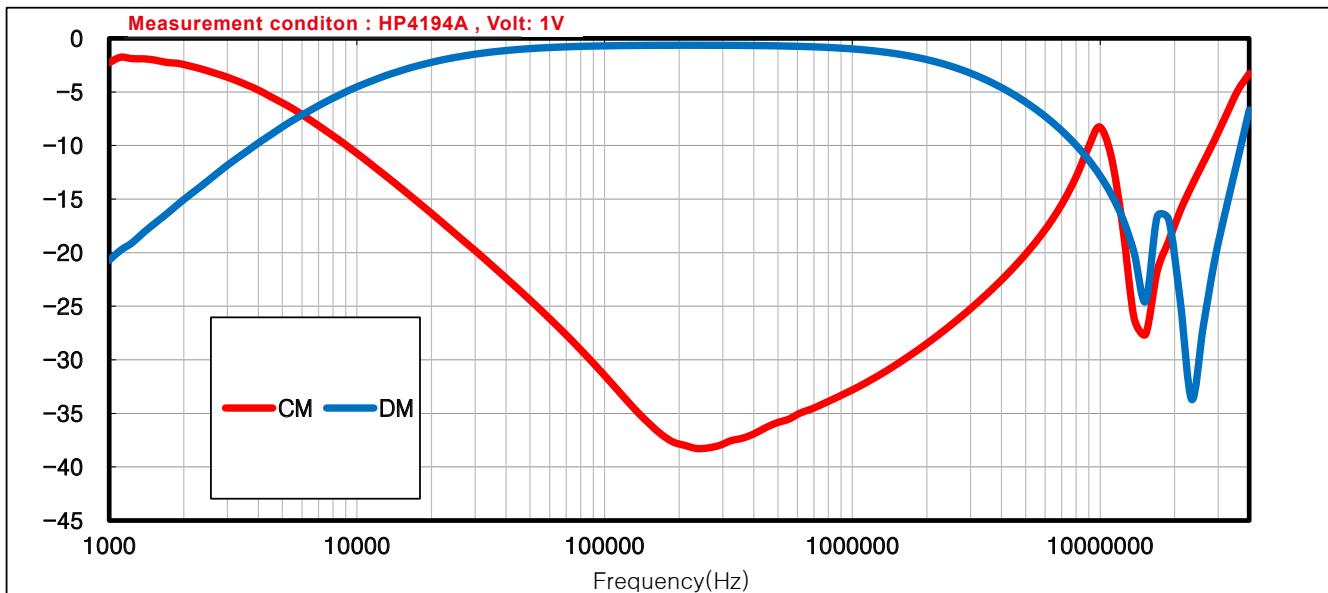
<CIRCUIT DIAGRAM>



EMI FILTER which consist of L-C combine, EMI FILTER adapter is a type which is equipped on input of power.

It has outstanding characteristic on attenuation and high frequency filtering.
Application : Industrial, Medical, Air Conditioner, Refrigerator, Washing Machine ...

<Attenuation>



FEEDTHROUGH FILM CAPACITOR



Using L/C unique characteristics and applied 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>

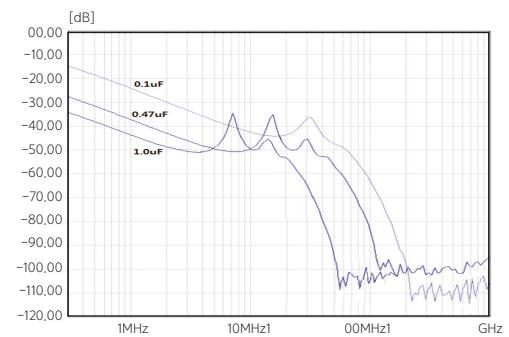
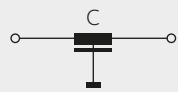
Rated Voltage: DC 100V ~ 1000Vmax,
AC 100V ~ 440Vmax

Rated Current: 10A ~ 500A

Capacitance: $0.01\mu\text{F}$ ~ $10\mu\text{F}$



Typical electrical schematic

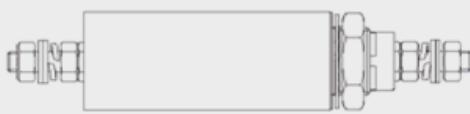


<FPC Series>

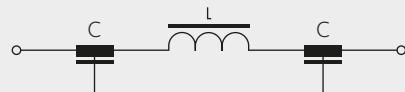
Rated Voltage: DC 100V ~ 600Vmax,
AC 100V ~ 250Vmax

Rated Current: 20A ~ 500A

Capacitance: $0.01\mu\text{F}$ ~ $10\mu\text{F}$



Typical electrical schematic



REACTOR

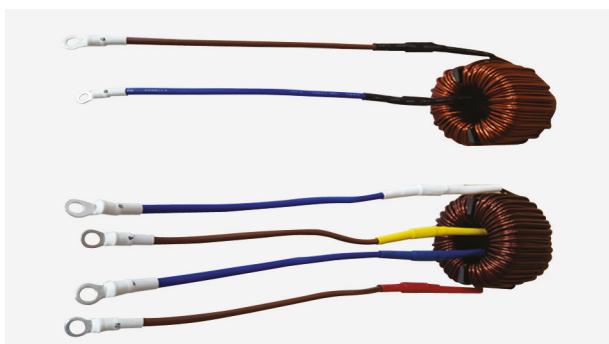


By using powder magnetic core it has less loss on high frequency, compared to silicone steel reactor.

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.

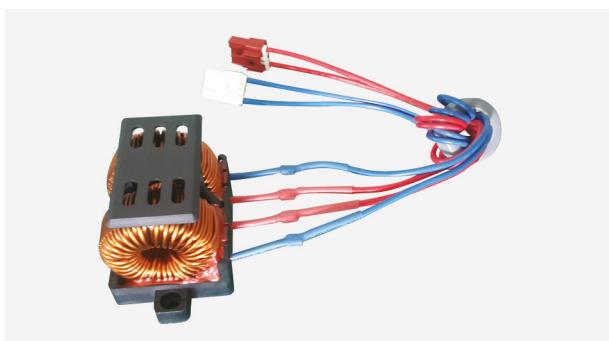
Application: solar inverter, ESS, Refrigerator...



<AHK740-Series>



<AHK740-1-A5B00C>



<NVS467-Series>



AHK740-2-B0800C

3m EMI Compact Chamber



TNC Co., Ltd. provides free service for Conducted Emission and Radiated Emission in EMI. We will offer you the perfect solution based on our high quality LINE FILTER and EMI technical team.

<Measuring Instruments>

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



<Power Specifications>

- AC Single Phase 0~300V, 50A, 50Hz, 60Hz, 45Hz~65Hz
- AC 3 Phase 380V, 50A, 60Hz
- DC 0~450V, 100A



Automotive EMI Chamber



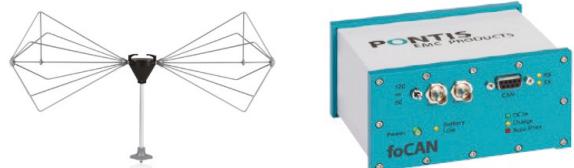
<Measuring Instruments>

- 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



<Power Specifications>

- DC 0~600V, 0~150A

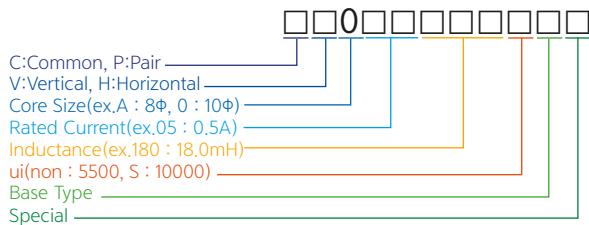


Common

SMD 8Φ, 10Φ-SERIES



■ PRODUCT NAME MEANING



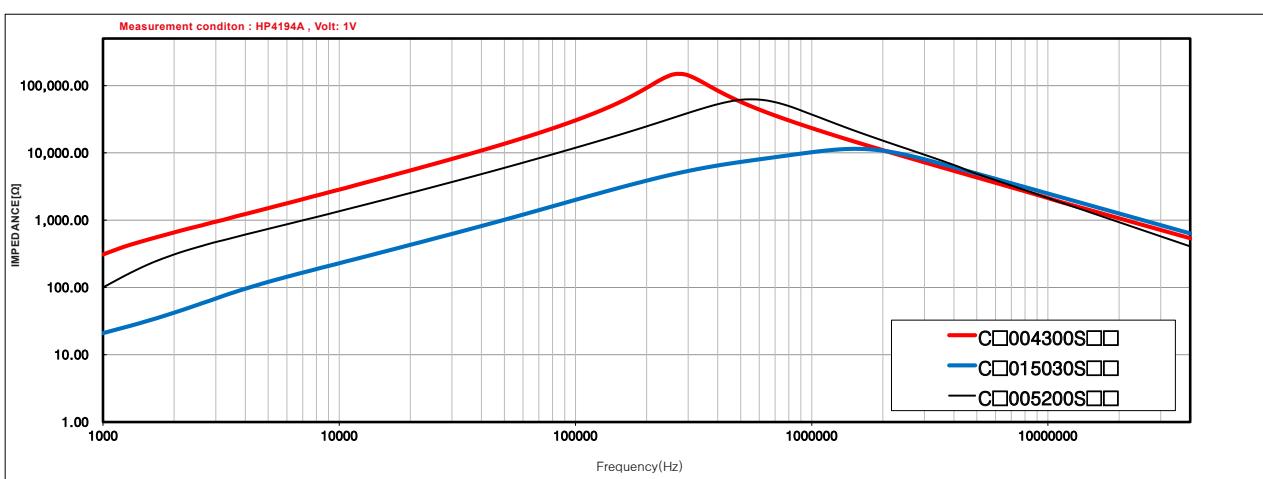
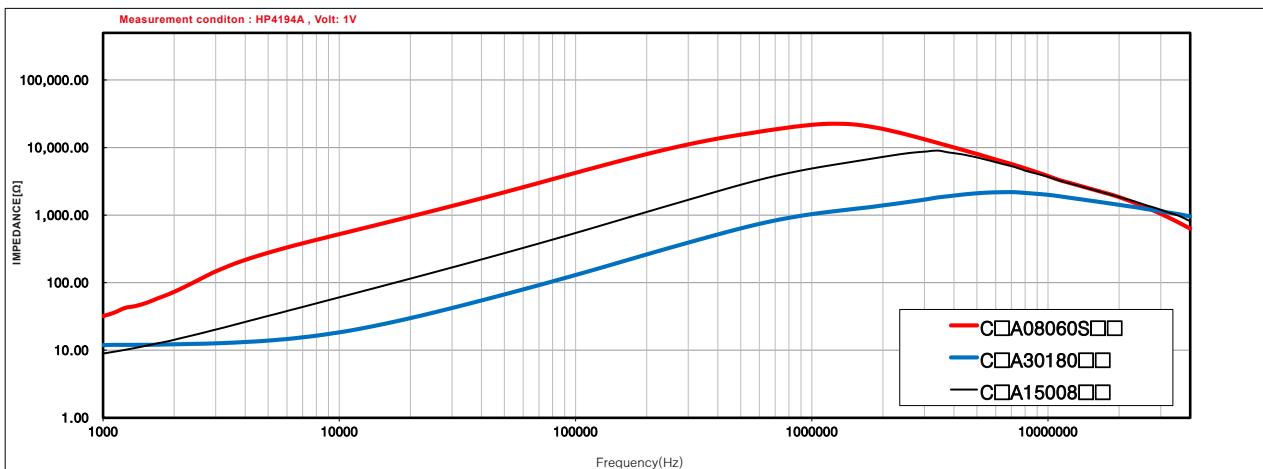
■ PART NUMBER AND SPECIFICATIONS

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°C to 105°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- 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



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■ SHAPE AND DIMENSION

Fig.1 CHAM- SERIES

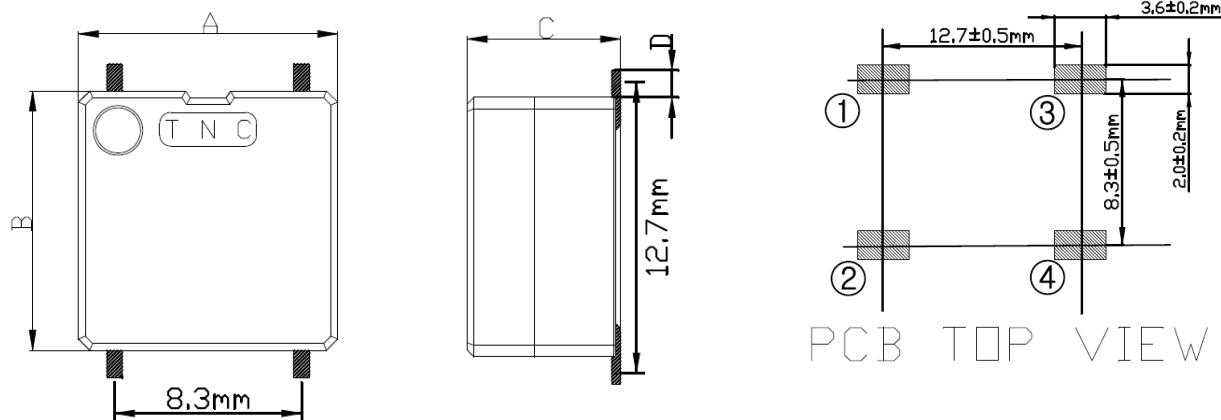
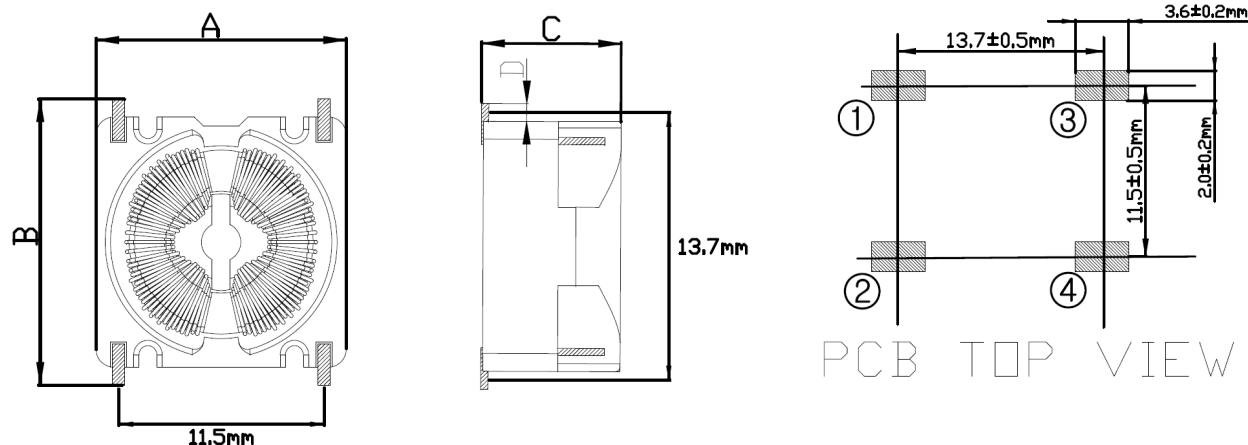


Fig.2 CH0M- SERIES



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

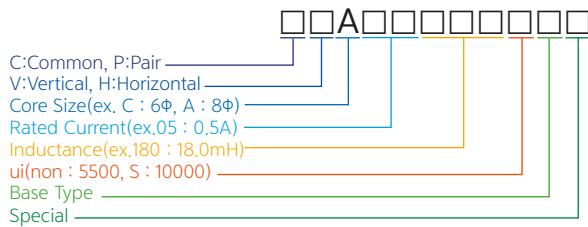
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Common

6Φ, 8Φ-SERIES



■ PRODUCT NAME MEANING



■ 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

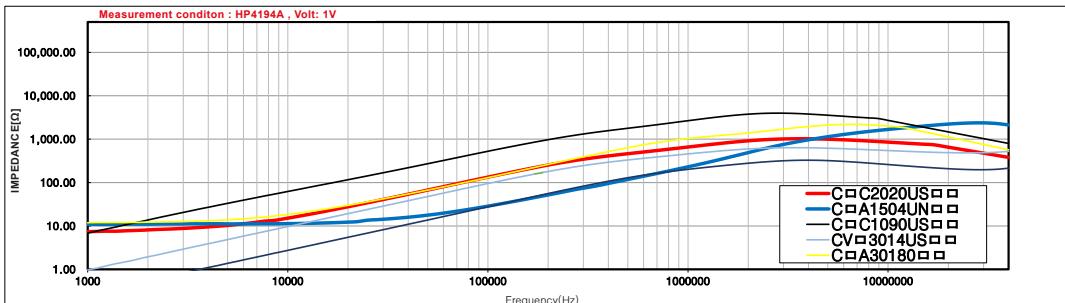
*DC용

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

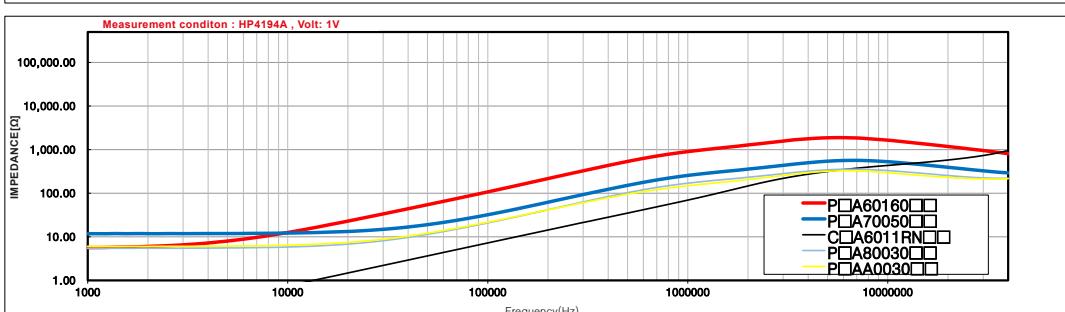
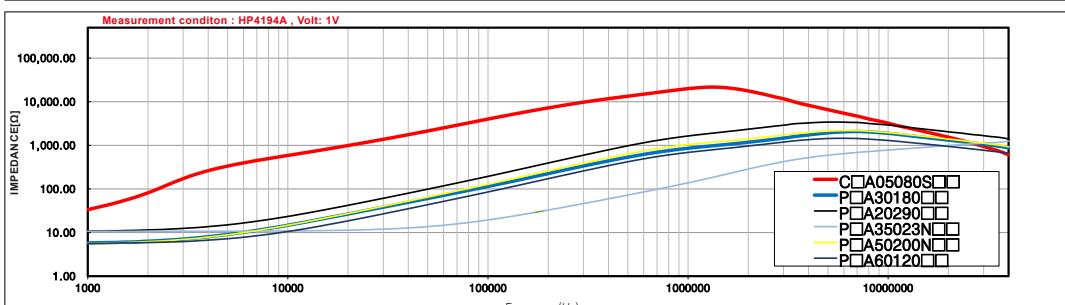
Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 105°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- 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

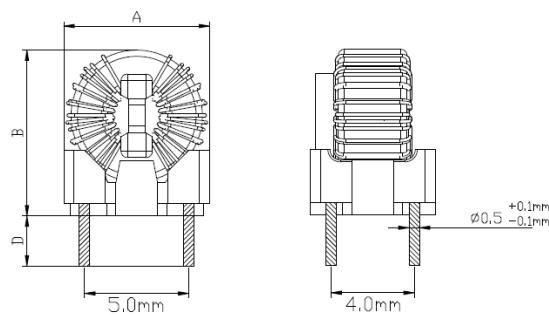


Fig.3 CHAA- SERIES

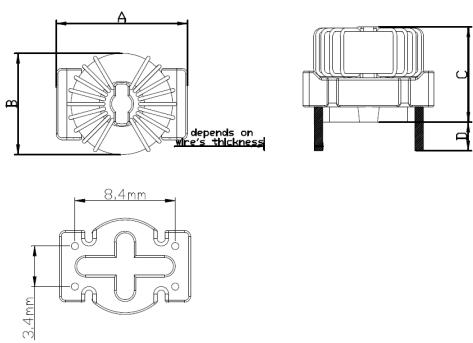


Fig.5 PVAC- SERIES

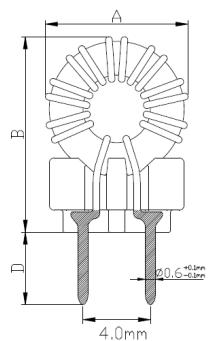


Fig.7 PVAN- SERIES

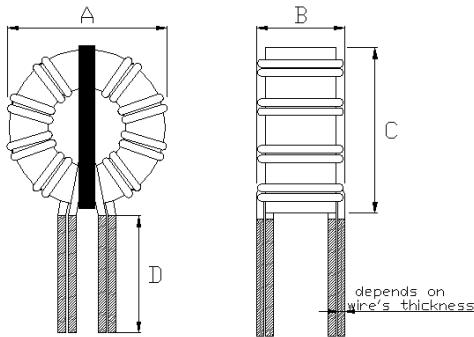


Fig.2 CVAB- SERIES

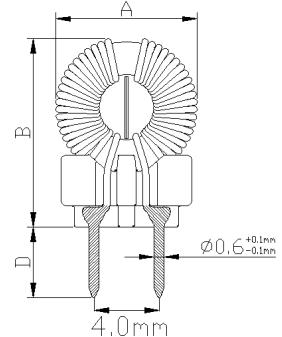


Fig.4 PVAJ- SERIES

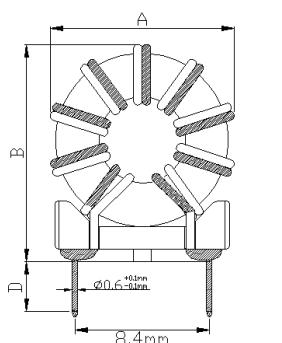
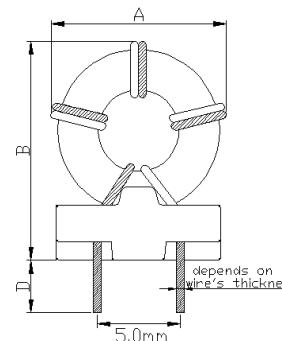


Fig.6 PVAA- SERIES



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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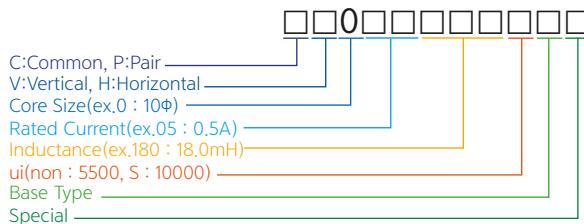
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Common

10Φ-SERIES



■ PRODUCT NAME MEANING



■ PART NUMBER AND SPECIFICATIONS

*AC용

Part No.	Rated current(A)	Inductance (mH)	DCR (mΩ)	Rated Voltage(V)
C□003400S□□	0.3	40.000	1100	300
C□004300S□□	0.4	30.000	1002	300
C□005200S□□	0.5	20.000	1194	300
C□008090S□□	0.8	9.000	264	300
C□015030S□□	1.5	3.000	96	300
C□025010S□□	2.5	1.000	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)	Inductance(mH)	DC R (mΩ)	Rated Voltage(V)
P□015015S□□	1.5	1.500	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

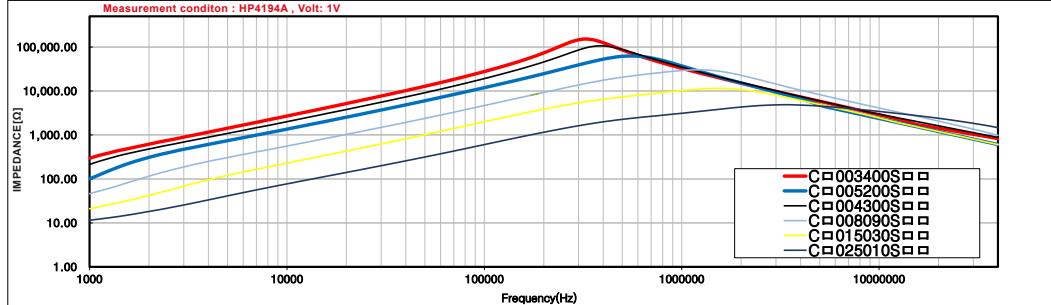
Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 105°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- Rising temperature is affected by PCB condition and an amount of harmonics.

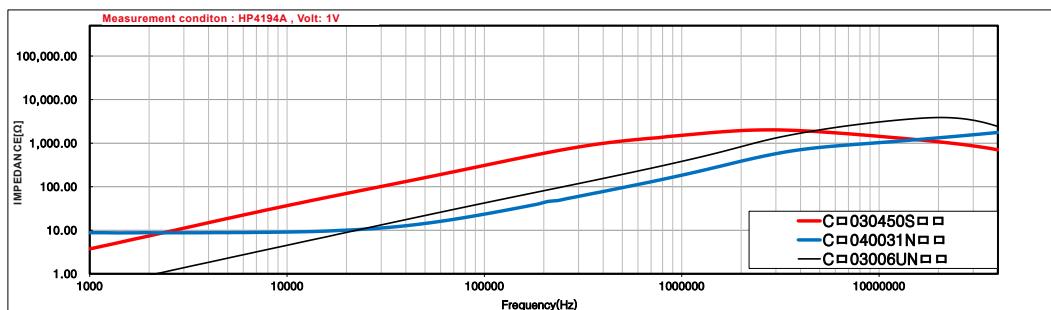
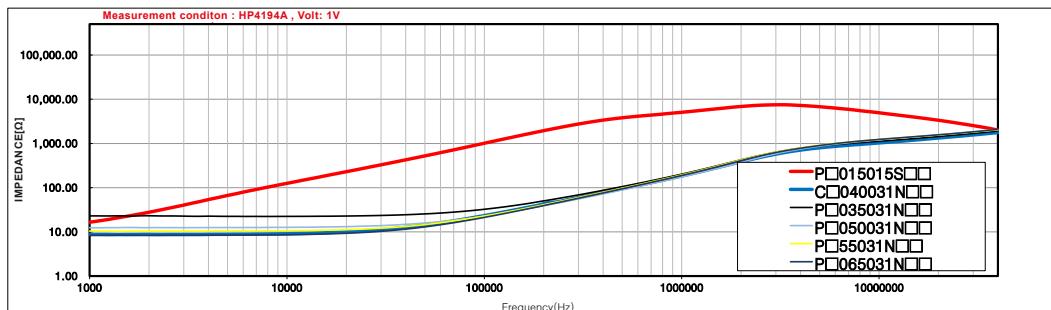
Please make sure that the temperature of the coil is not exceeded the operating temperature range.

- 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

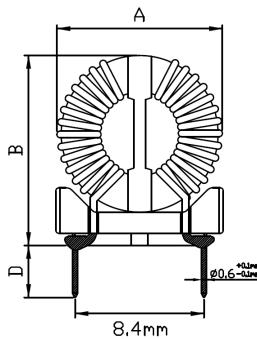


Fig.2 CV0D- SERIES

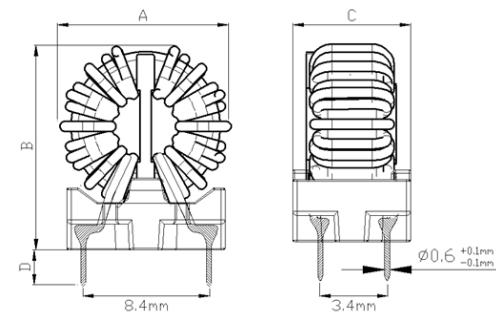


Fig.3 CV0F- SERIES

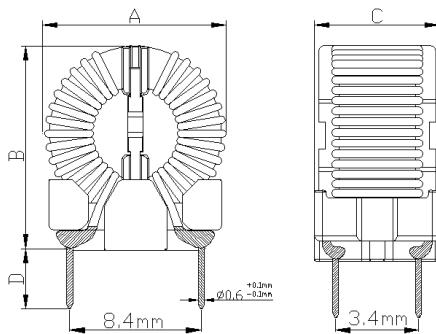


Fig.4 CH0B- SERIES

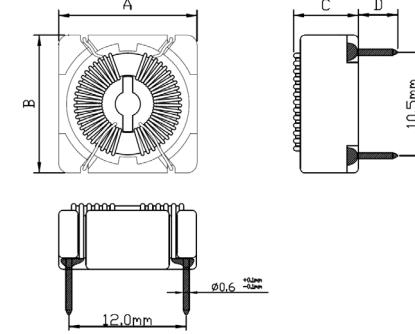


Fig.5 CH0D- SERIES

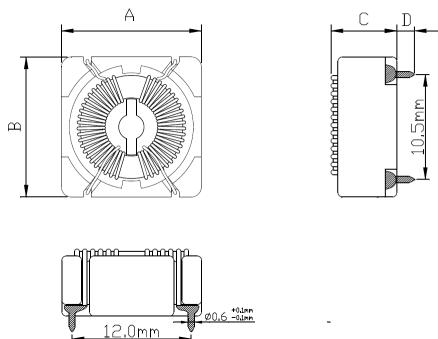


Fig.6 PV0E- SERIES

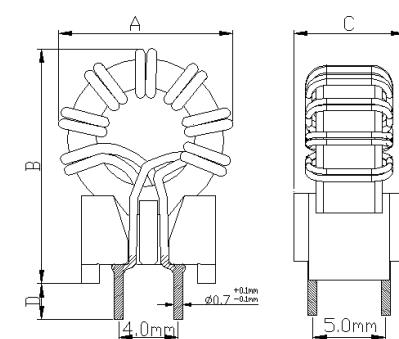


Fig.7 PV0J- SERIES

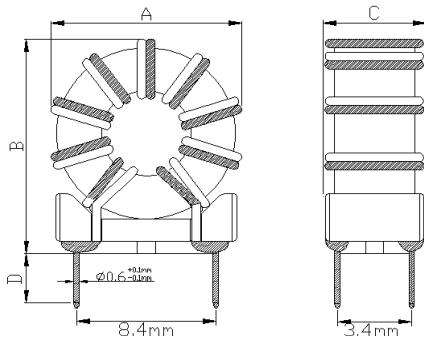
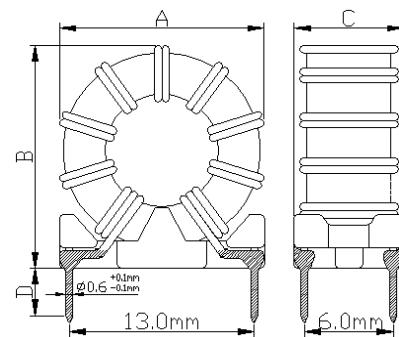


Fig.8 PV0A- SERIES



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)

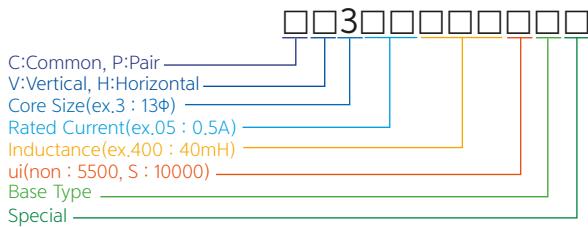
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Common

13Φ-SERIES



■ PRODUCT NAME MEANING

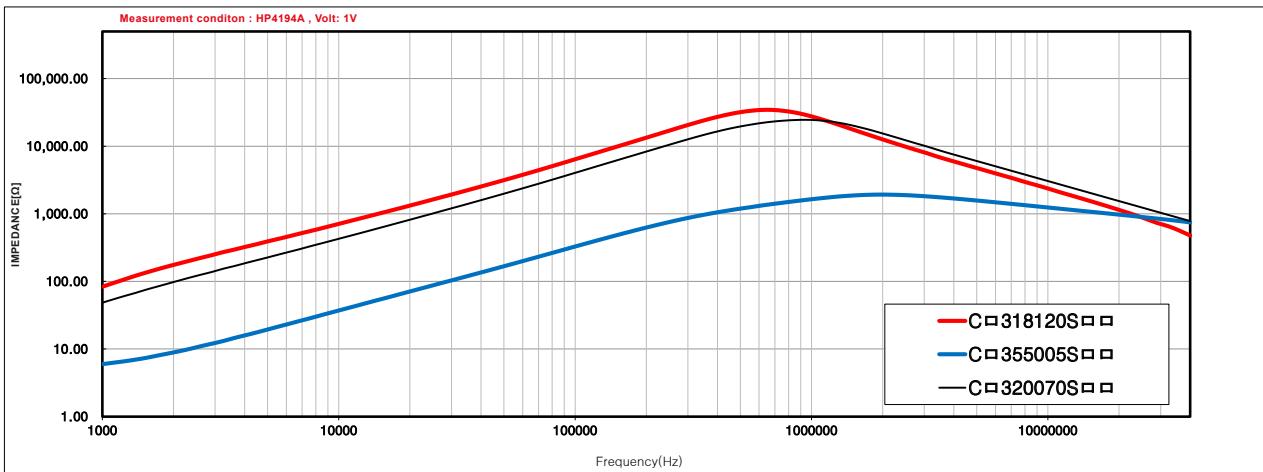
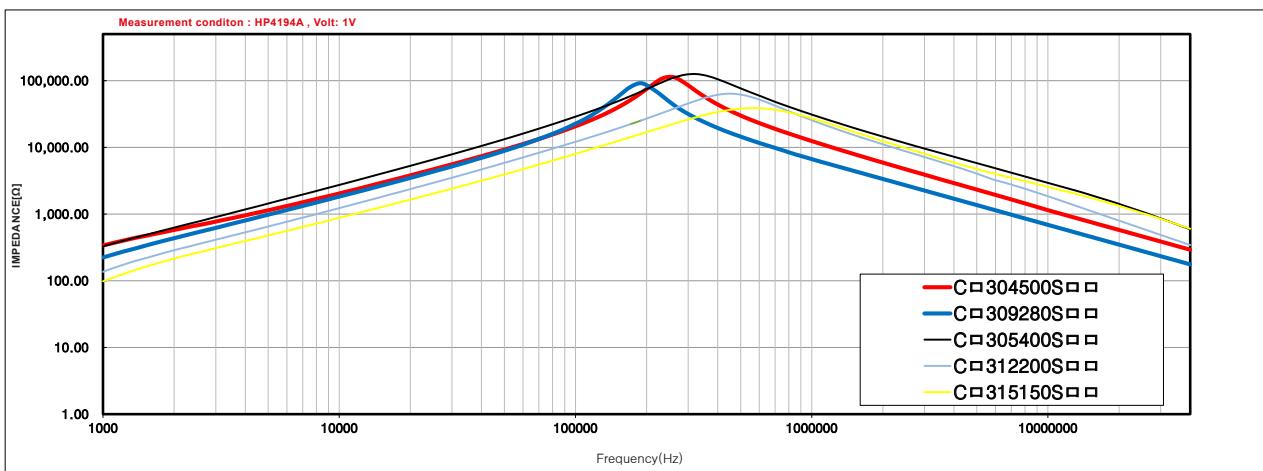


■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□304500S□□	0.4	50.00	963	300
C□305400S□□	0.5	40.00	838	300
C□309280S□□	0.9	28.00	477	300
C□312200S□□	1.2	20.00	279	300
C□315150S□□	1.5	15.00	266	300
C□318120S□□	1.8	12.00	156	300
C□320070S□□	2.0	7.00	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°C to 105°C
- Winding Temperature Rise(at Rated Current) is under 55°C
- 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

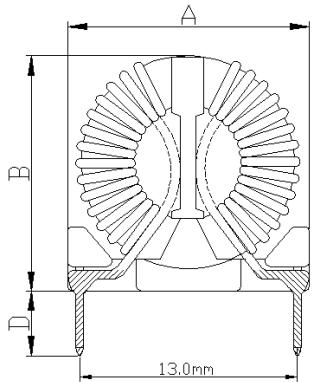


Fig.2 CV3B- SERIES

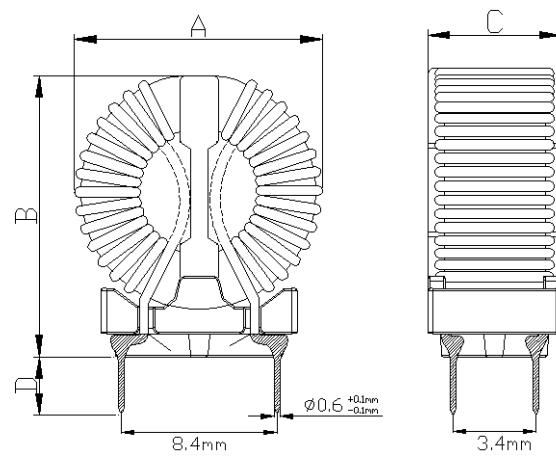


Fig.3 CV3C- SERIES

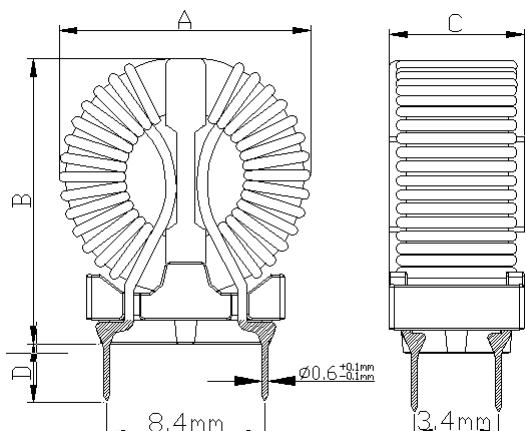
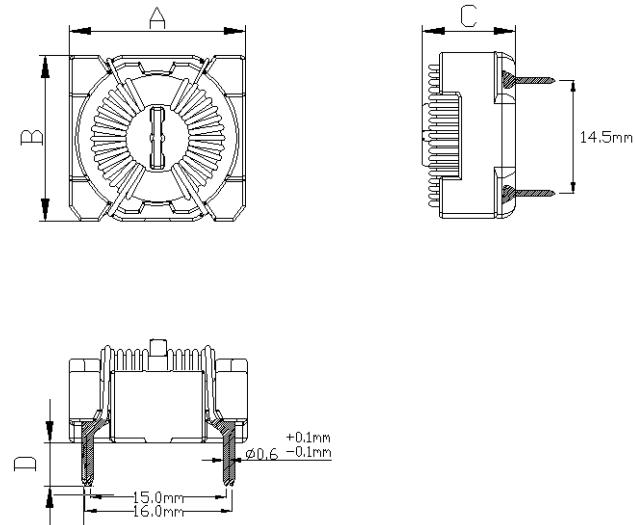


Fig.4 CH3B- SERIES

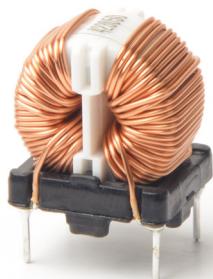


MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CV3A(FIG.1)	17.0	18.5	10.0	4.0±1.0
CV3B(FIG.2)	16.0	18.5	10.0	4.0±1.0
CV3C(FIG.3)	16.0	18.5	10.0	5.0±1.0
CH3B(FIG.4)	20.0	20.0	9.5	4.0±1.0

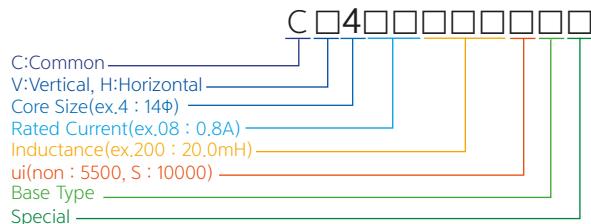
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14Φ-SERIES



■ PRODUCT NAME MEANING

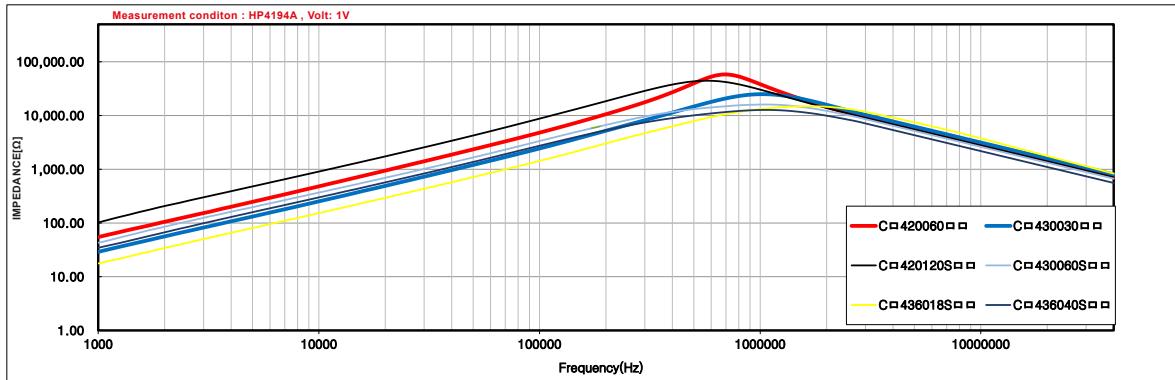
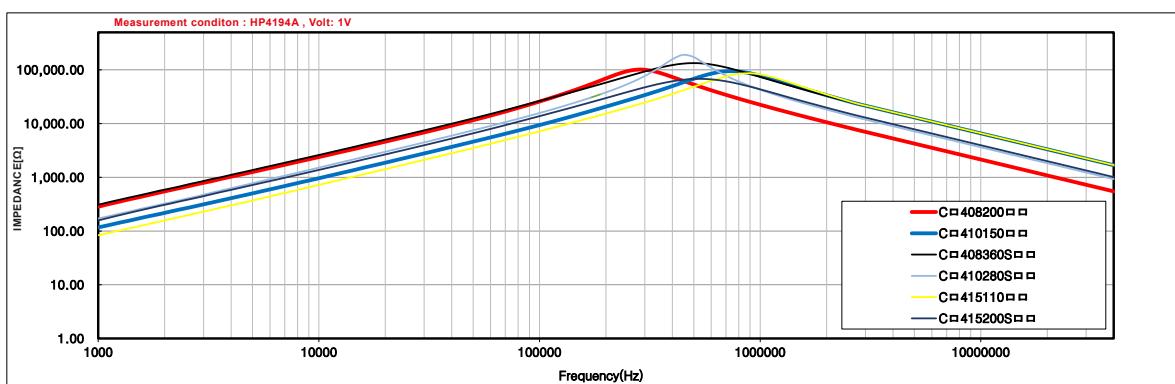


■ PART NUMBER AND SPECIFICATIONS

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°C to 120°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- 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

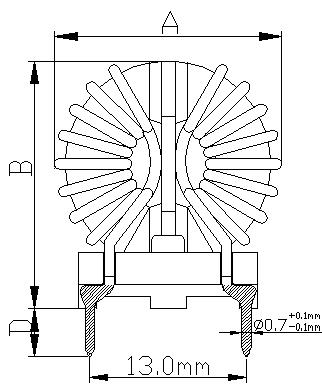


Fig.2 CV4L- SERIES

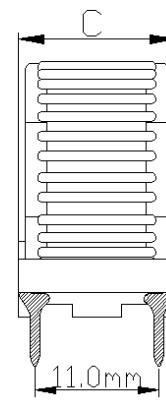
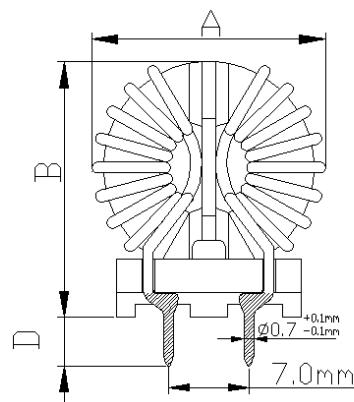
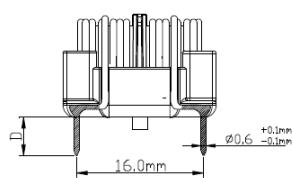
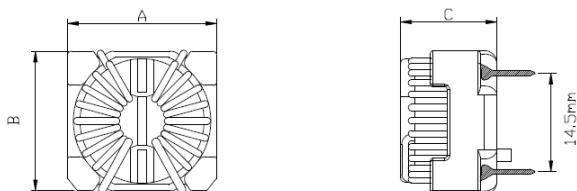


Fig.3 CH4F- SERIES

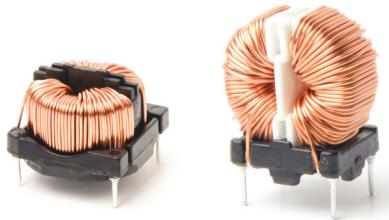


MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CV4K(FIG.1)	18.0	20.0	15.0	4.0±1.0
CV4L(FIG.2)	18.0	20.0	15.0	4.0±1.0
CV4F(FIG.3)	20.0	20.0	16.0	4.0±1.0

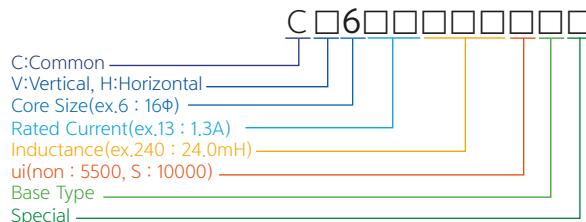
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16Φ-SERIES



■ PRODUCT NAME MEANING



■ PART NUMBER AND SPECIFICATIONS

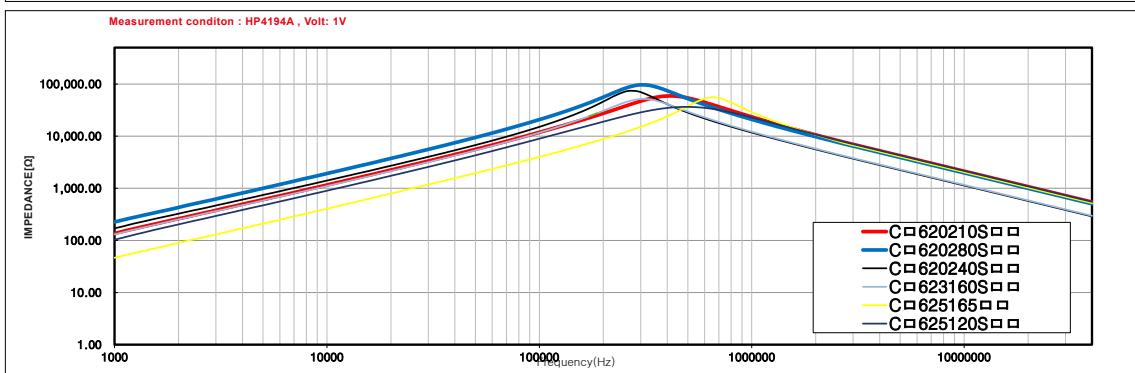
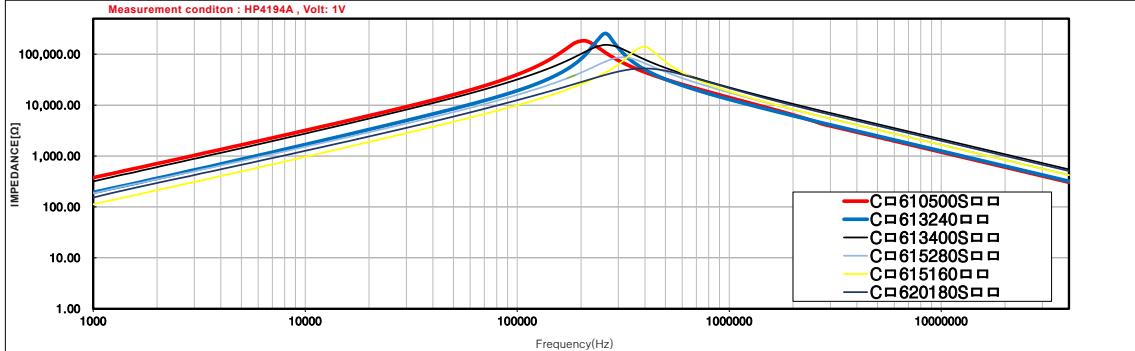
Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□610500S□□	1.0	50.0	436	300
C□613400S□□	1.3	40.0	435	300
C□613240□□	1.3	24.0	439	300
C□615280S□□	1.5	28.0	284	300
C□615160□□	1.5	16.0	284	300
C□620180S□□	2.0	18.0	173	300
C□620210S□□	2.0	21.0	177	300
C□620240S□□	2.0	24.0	173	300
C□620280S□□	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	10.0	117	300
C□630110S□□	3.0	10.0MIN	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

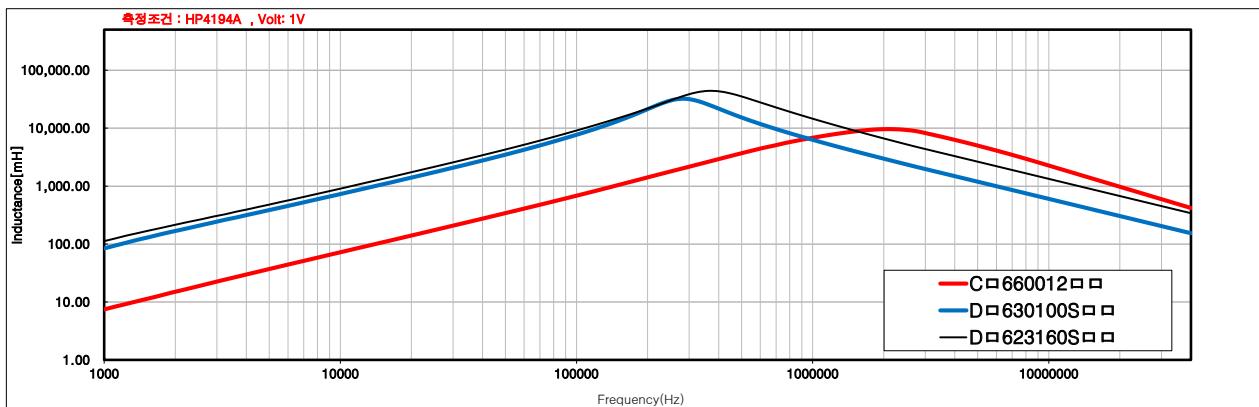
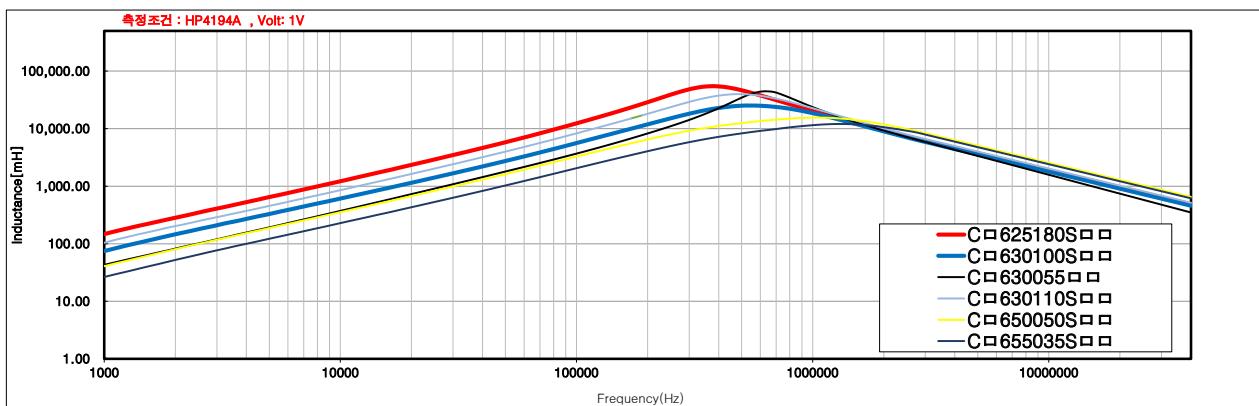
Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 120°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- 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.

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

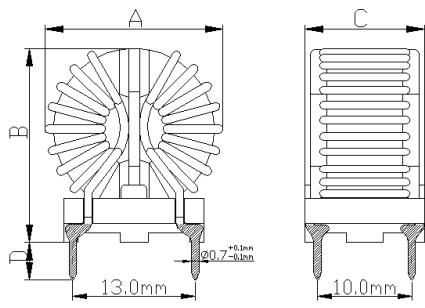


Fig.2 CV6L- SERIES

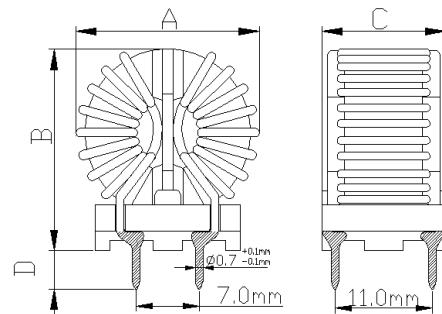


Fig.3 CH6F- SERIES

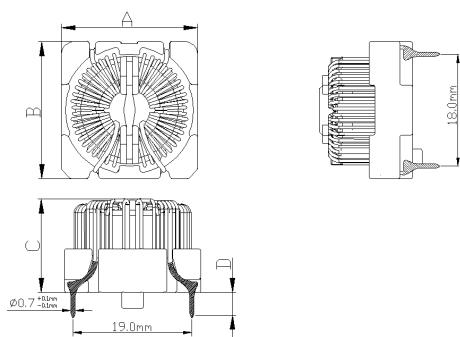
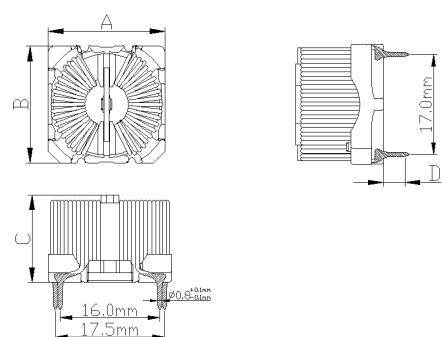


Fig.4 CH6M- SERIES



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

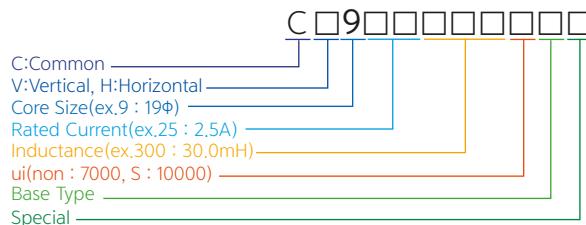
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19Φ-SERIES



■ PRODUCT NAME MEANING



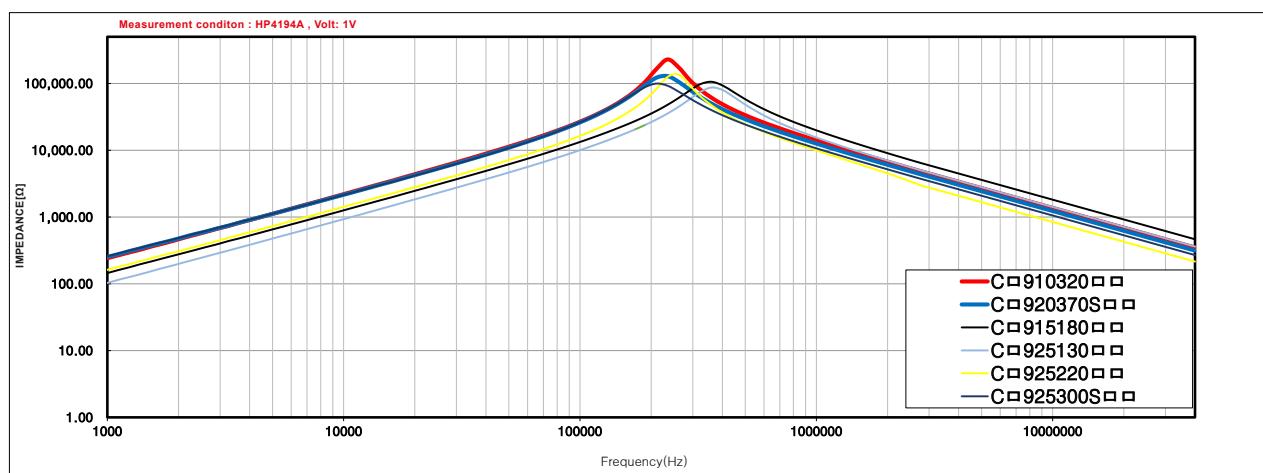
■ PART NUMBER AND SPECIFICATIONS

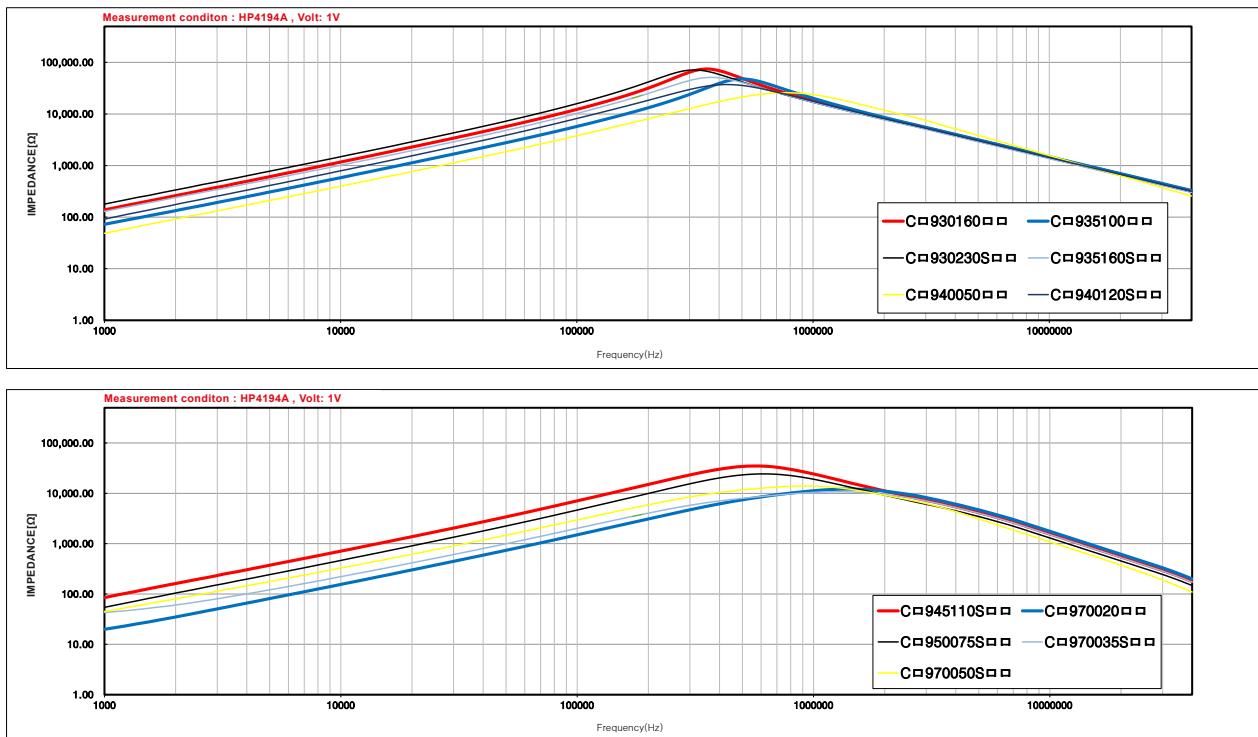
Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□910320□□	1.0	32.0	503	300
C□915180□□	1.5	18.0	250	300
C□920370S□□	2.0	37.0	244	300
C□925130□□	2.5	13.0	173	300
C□925220□□	2.5	22.0	187	300
C□925300S□□	2.5	30.0	183	300
C□930160□□	3.0	16.0	138	300
C□930230S□□	3.0	23.0	138	300
C□935100□□	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

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 120°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- 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

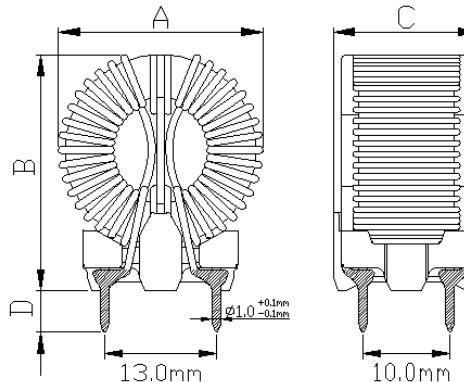


Fig.2 CV9E- SERIES

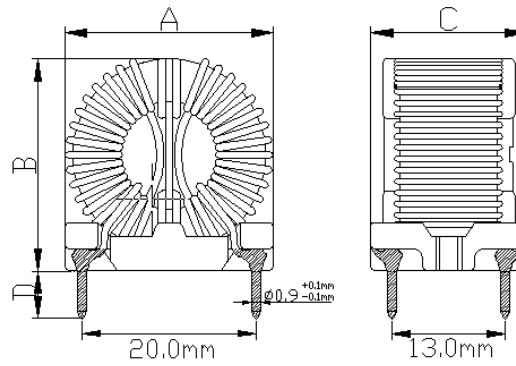


Fig.3 CH9H- SERIES

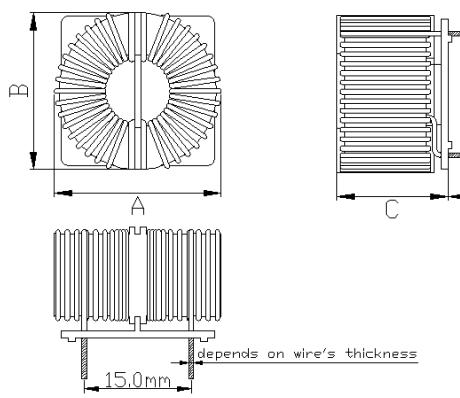
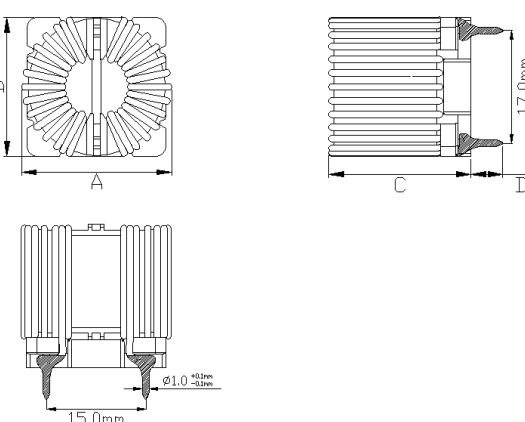


Fig.4 CH9Q- SERIES

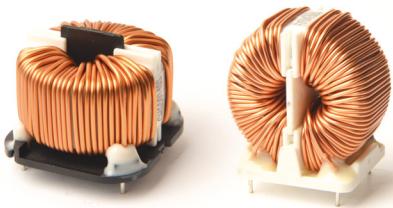


MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
CV9F(FIG.1)	25.0	30.0	20.0	4.0±1.0
CV9E(FIG.2)	25.0	25.0	21.0	4.0±1.0
CH9H(FIG.3)	26.0	26.0	24.0	4.0±1.0
CH9Q(FIG.4)	26.0	26.0	24.0	4.0±1.0

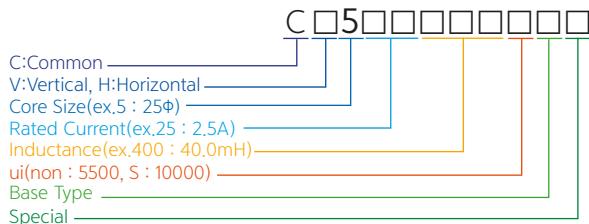
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25Φ-SERIES



■ PRODUCT NAME MEANING



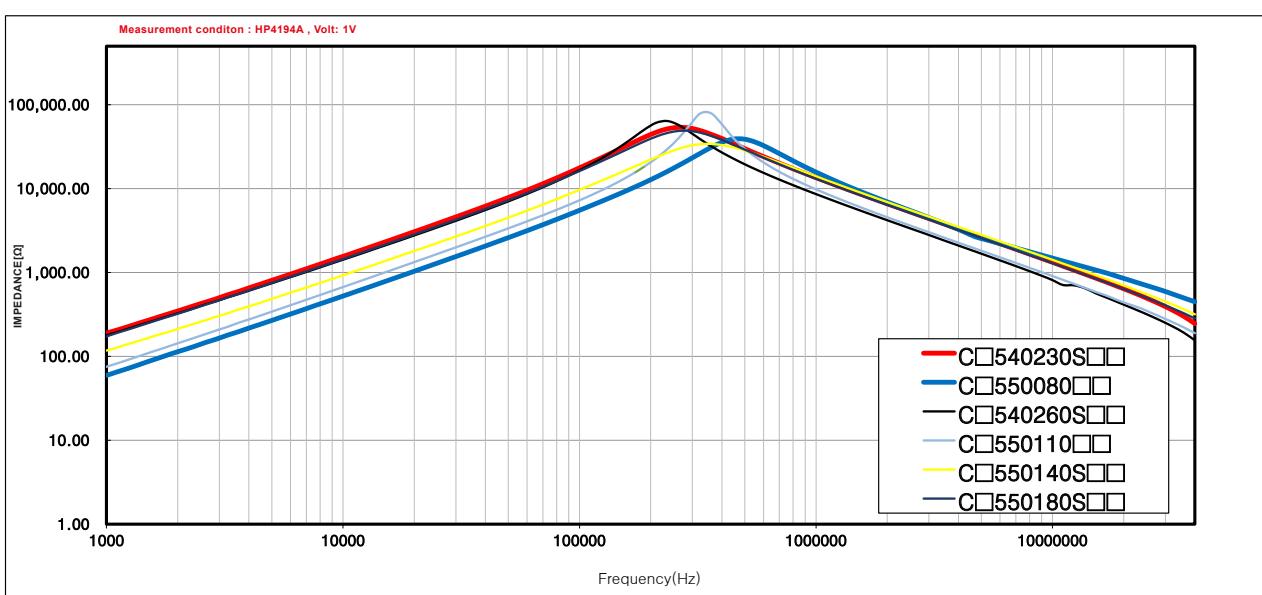
■ PART NUMBER AND SPECIFICATIONS

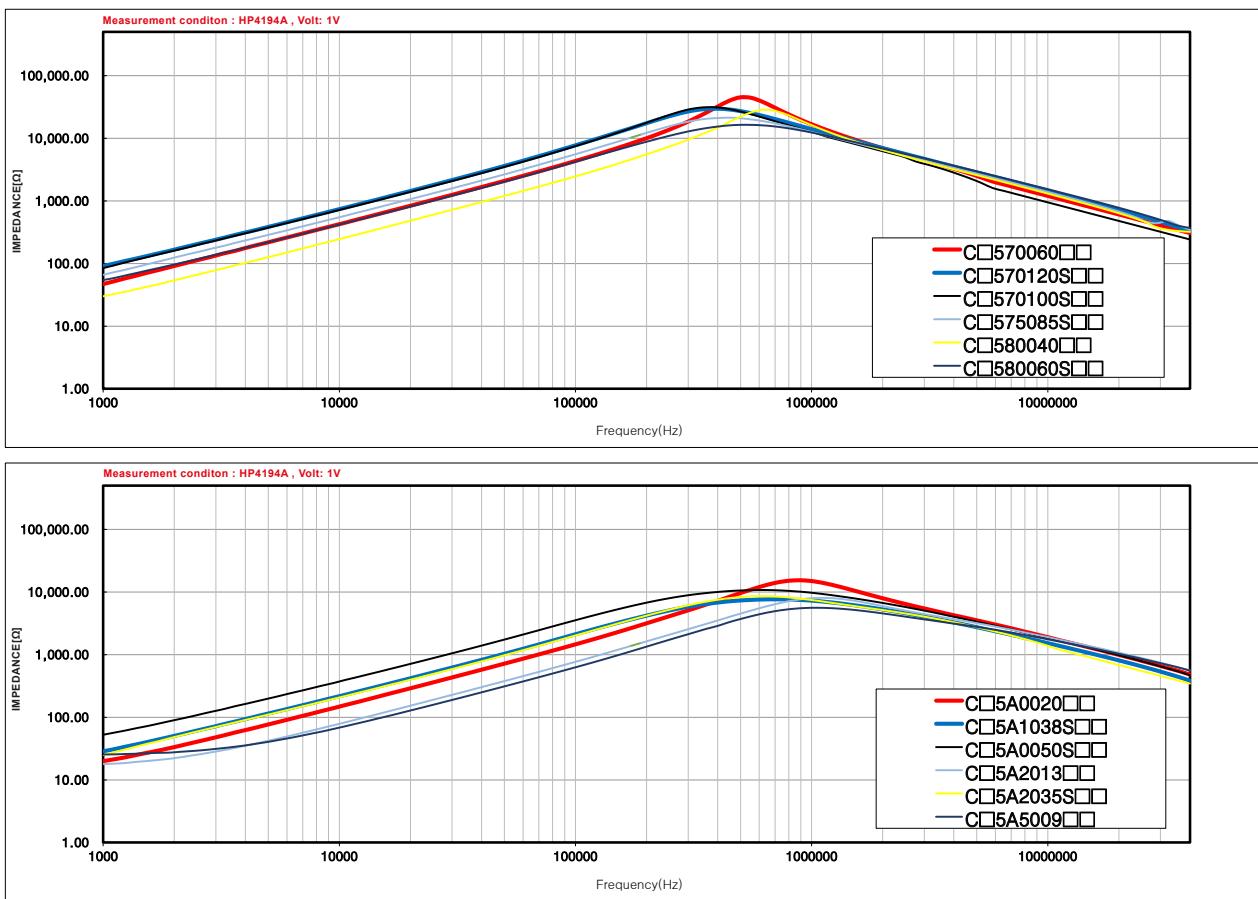
Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□530400S□□	3.0	40.0	161	300
C□535140□□	3.5	14.0	143	300
C□540230S□□	4.0	23.0	85	300
C□540260S□□	4.0	26.0	91	300
C□550080□□	5.0	8.0	77	300
C□550110□□	5.0	11.0	78	300
C□550140S□□	5.0	14.0	46	300
C□550180S□□	5.0	18.0	67	300
C□570060□□	7.0	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

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 120°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- Rising temperature is affected by PCB condition and an amount of harmonics.
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- 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

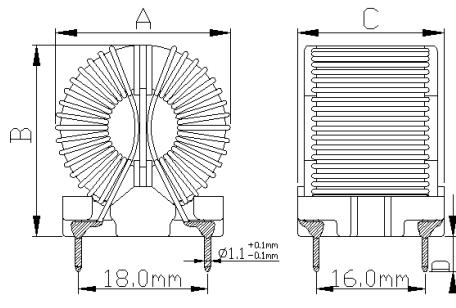


Fig.2 CV5A- SERIES

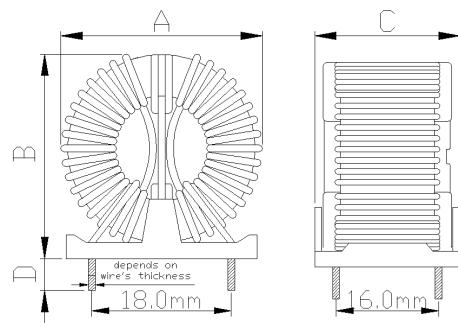
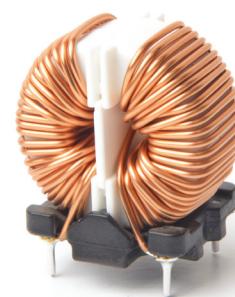
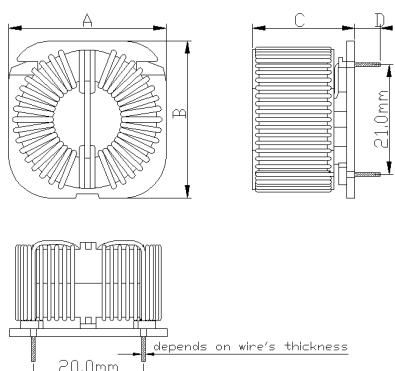


Fig.3 CH5H- SERIES



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

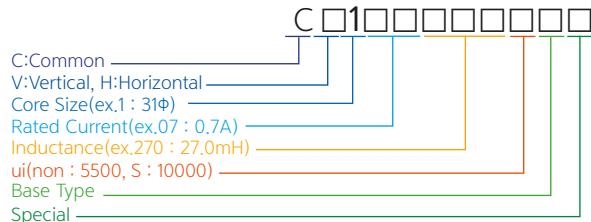
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31Φ-SERIES



■ PRODUCT NAME MEANING

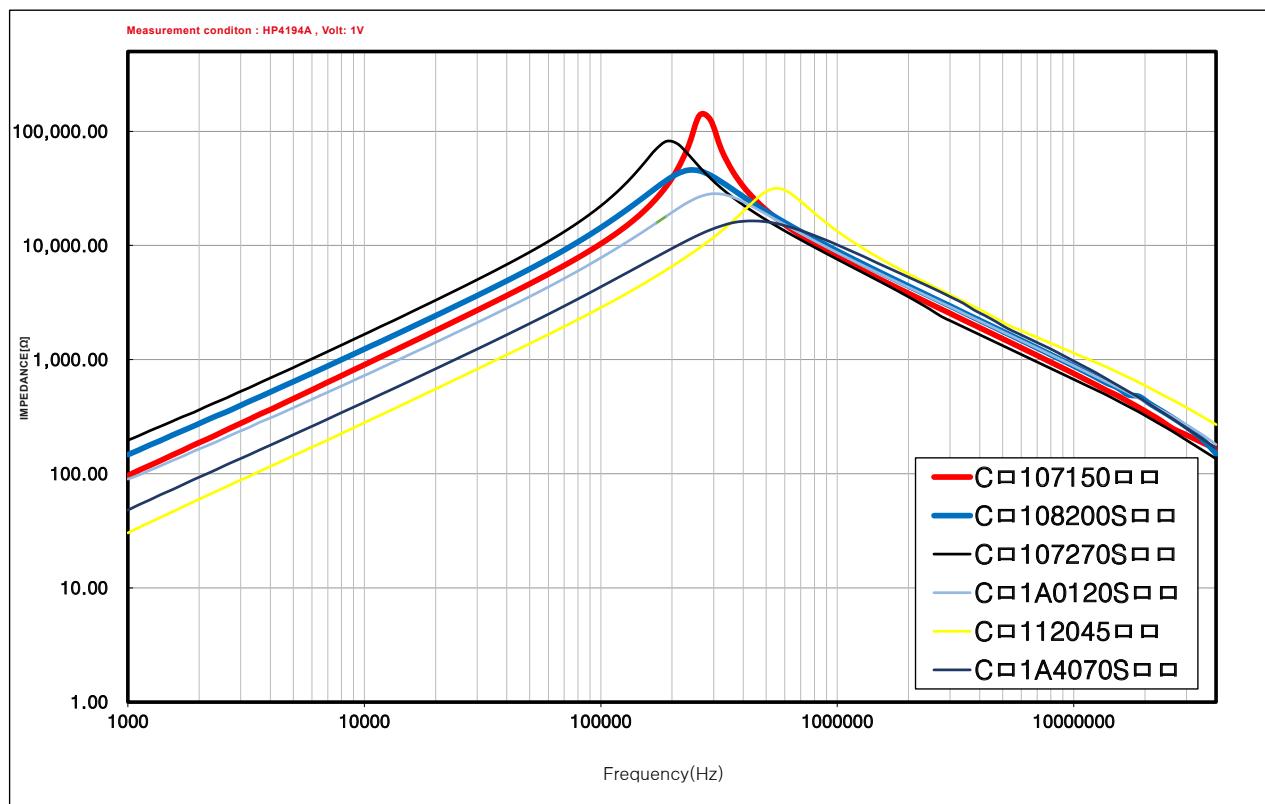


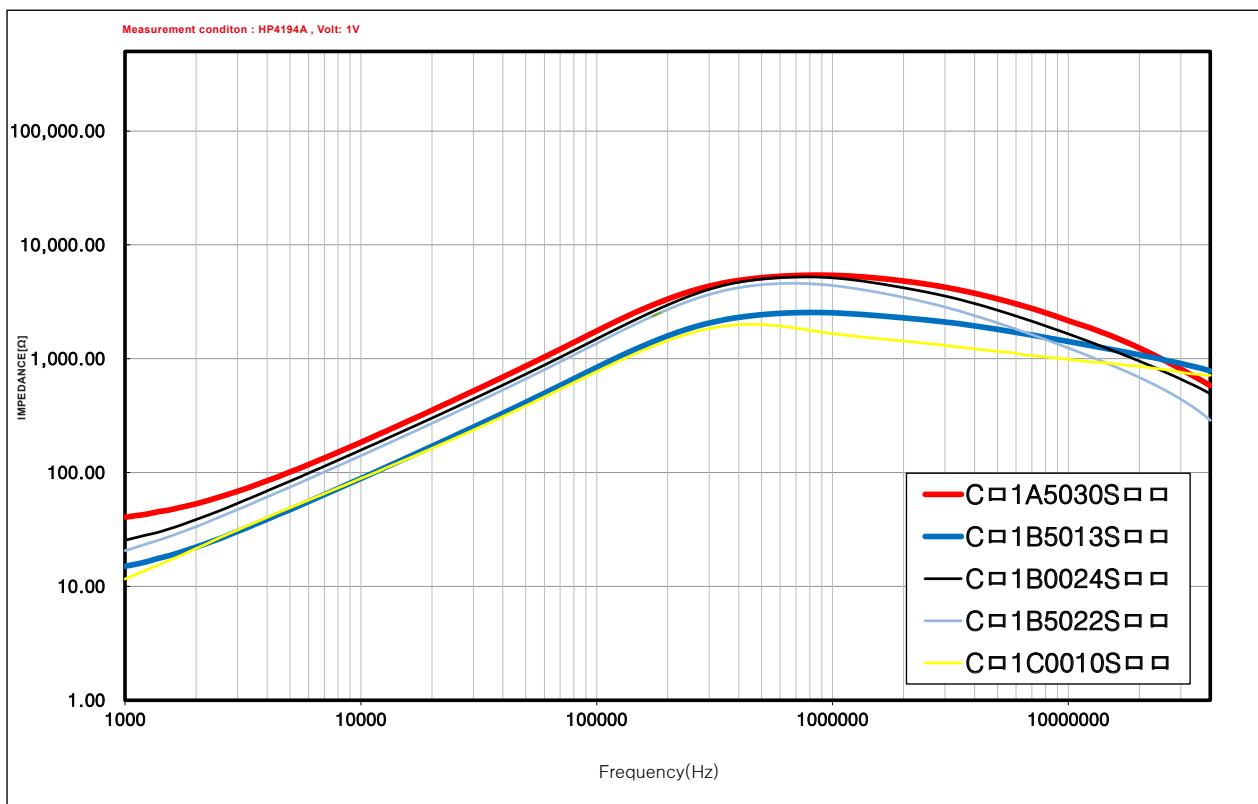
■ PART NUMBER AND SPECIFICATIONS

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

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- Winding Temperature Rise(at Rated Current)is under 55°C
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- Pb-free solder used
- RoHS free
- Custom made Products are also available
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■ SHAPE AND DIMENSION

Fig.1 CV1A- SERIES

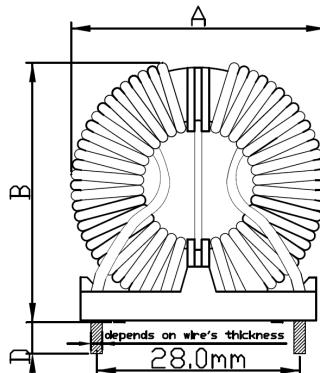
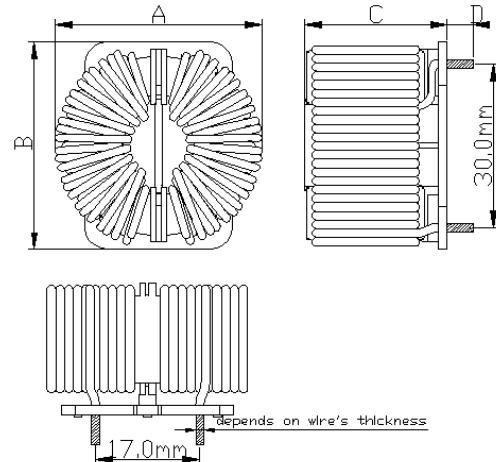


Fig.2 CH1H- SERIES



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

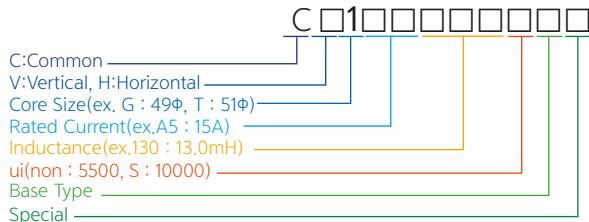
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Common

49Φ,51Φ-SERIES



■ PRODUCT NAME MEANING



■ PART NUMBER AND SPECIFICATIONS

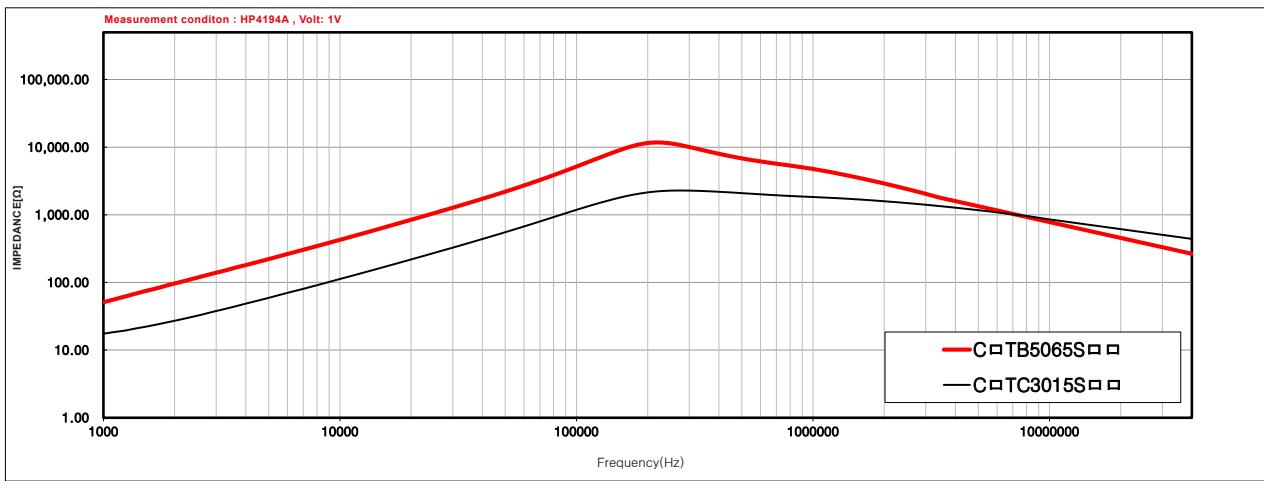
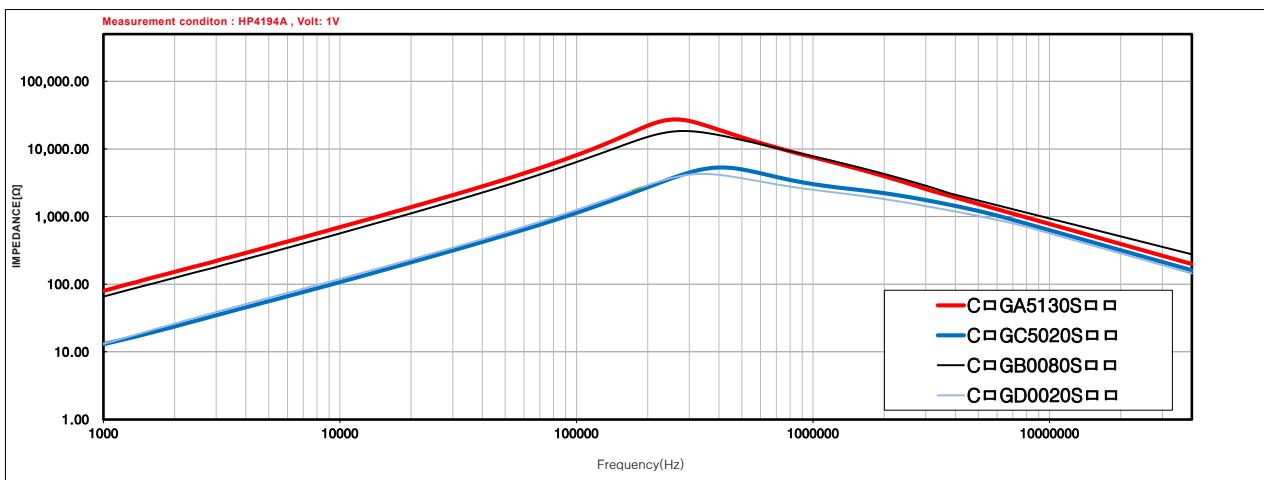
Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
C□GA5130S□□	15.0	13.0	14.0	300
C□GB0080S□□	20.0	8.0	11.0	300
C□GC5020S□□	35.0	2.0	3.5	300
C□GD0020S□□	40.0	2.0	3.0	300
C□TB5065S□□	25.0	6.5	10.0	300
C□TC3015S□□	33.0	1.5	6.0	300

Notice

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 120°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- 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

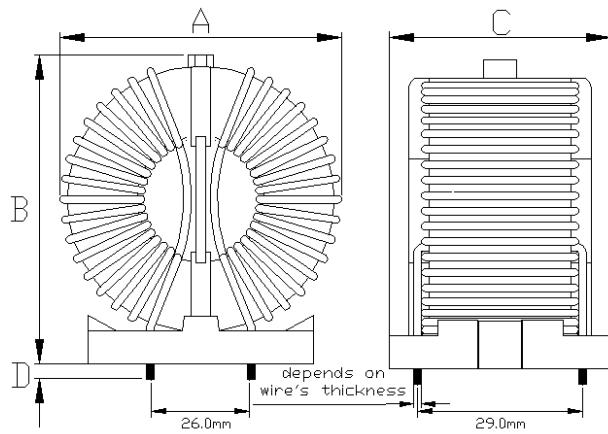


Fig.2 CVGB- SERIES

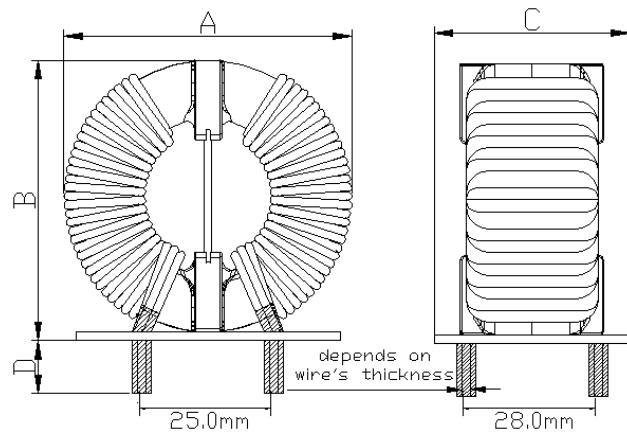


Fig.3 CHGH- SERIES

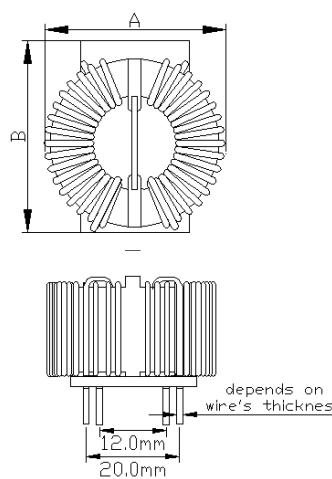
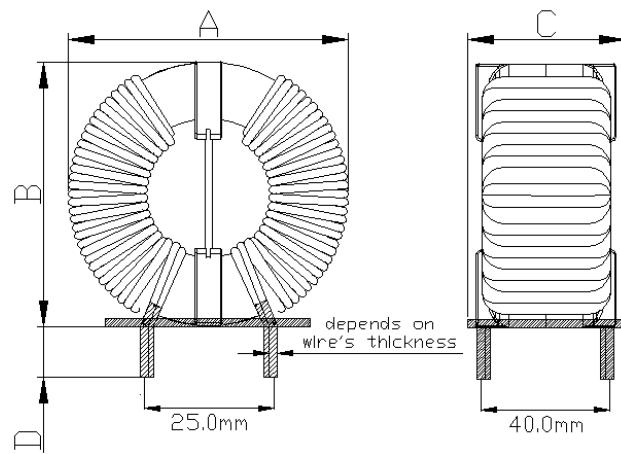


Fig.4 CVTJ- SERIES



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

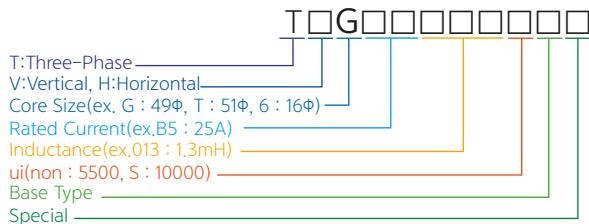
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Common

3상COIL-SERIES



■ PRODUCT NAME MEANING

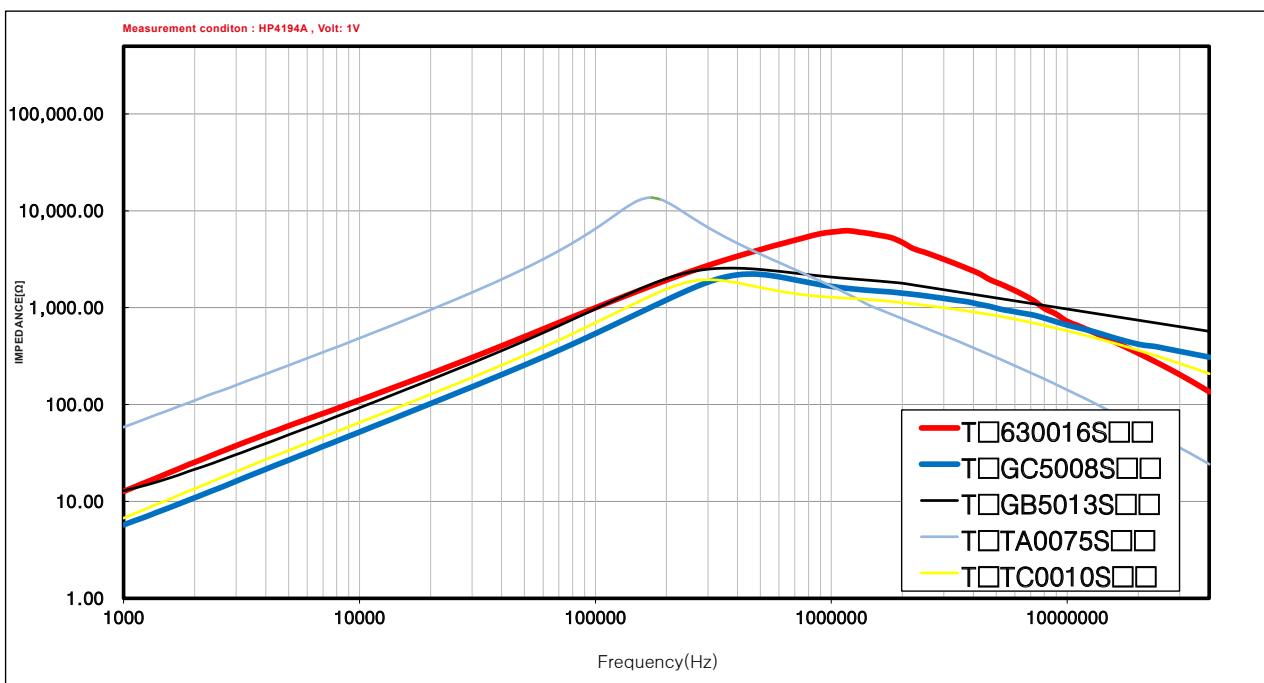


■ PART NUMBER AND SPECIFICATIONS

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	3.5MIN(@1kHz)	22	450
T□TC0010S□□	30.0	1.2(@100kHz)	3	450

Notice

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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

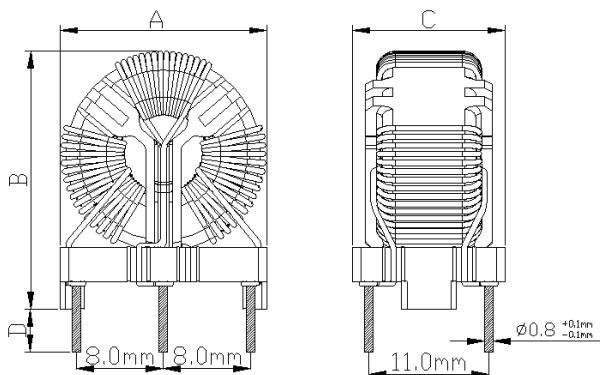


Fig.2 TVGN- SERIES

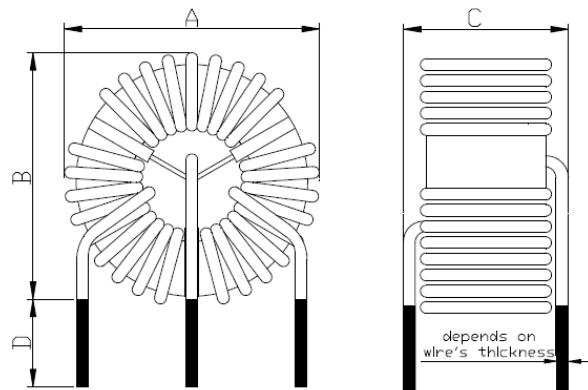


Fig.3 THGN- SERIES

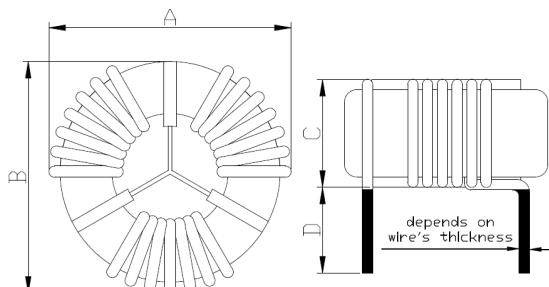


Fig.4 TVTE- SERIES

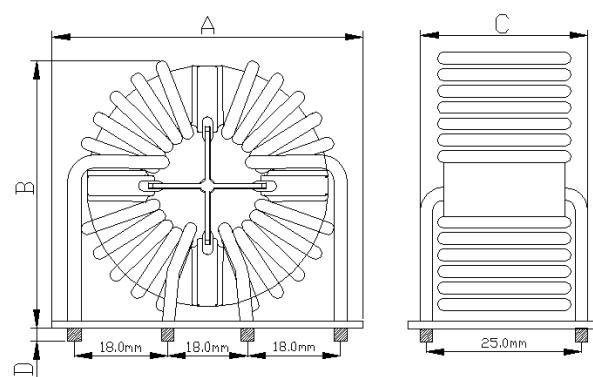


Fig.5 TVTB- SERIES

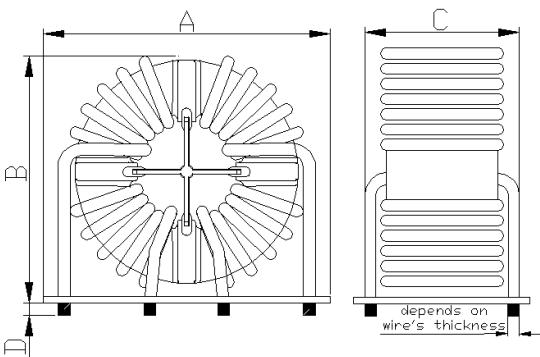
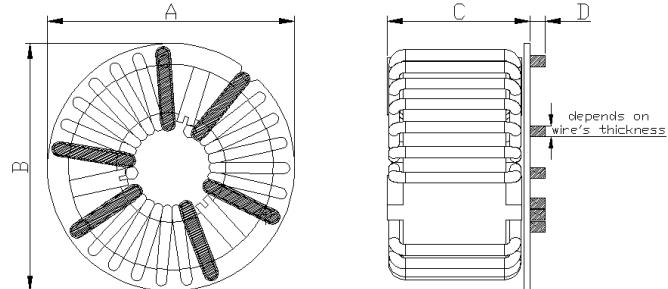


Fig.6 THTA- SERIES

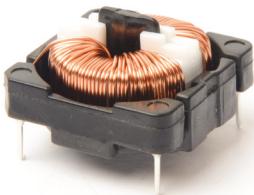


MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
TV6A(FIG.1)	22.0	27.0	17.0	4.0±1.0
TVGN(FIG.2)	65.0	65.0	40.0	15.0±5.0
THGN(FIG.3)	65.0	65.0	35.0	20.0±5.0
TVTE(FIG.4)	70.5	65.0	35.5	4.0±1.0
TVTB(FIG.5)	72.0	65.0	47.0	4.0±1.0
THTA(FIG.6)	68.0	68.0	43.0	4.0±1.0

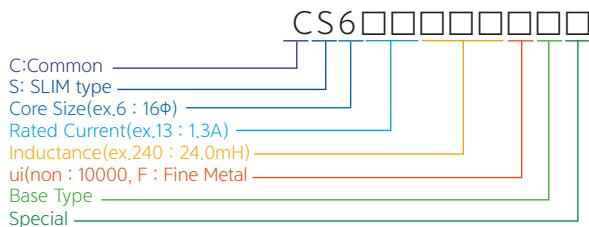
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Common

SLIM 16Φ-SERIES



■ PRODUCT NAME MEANING

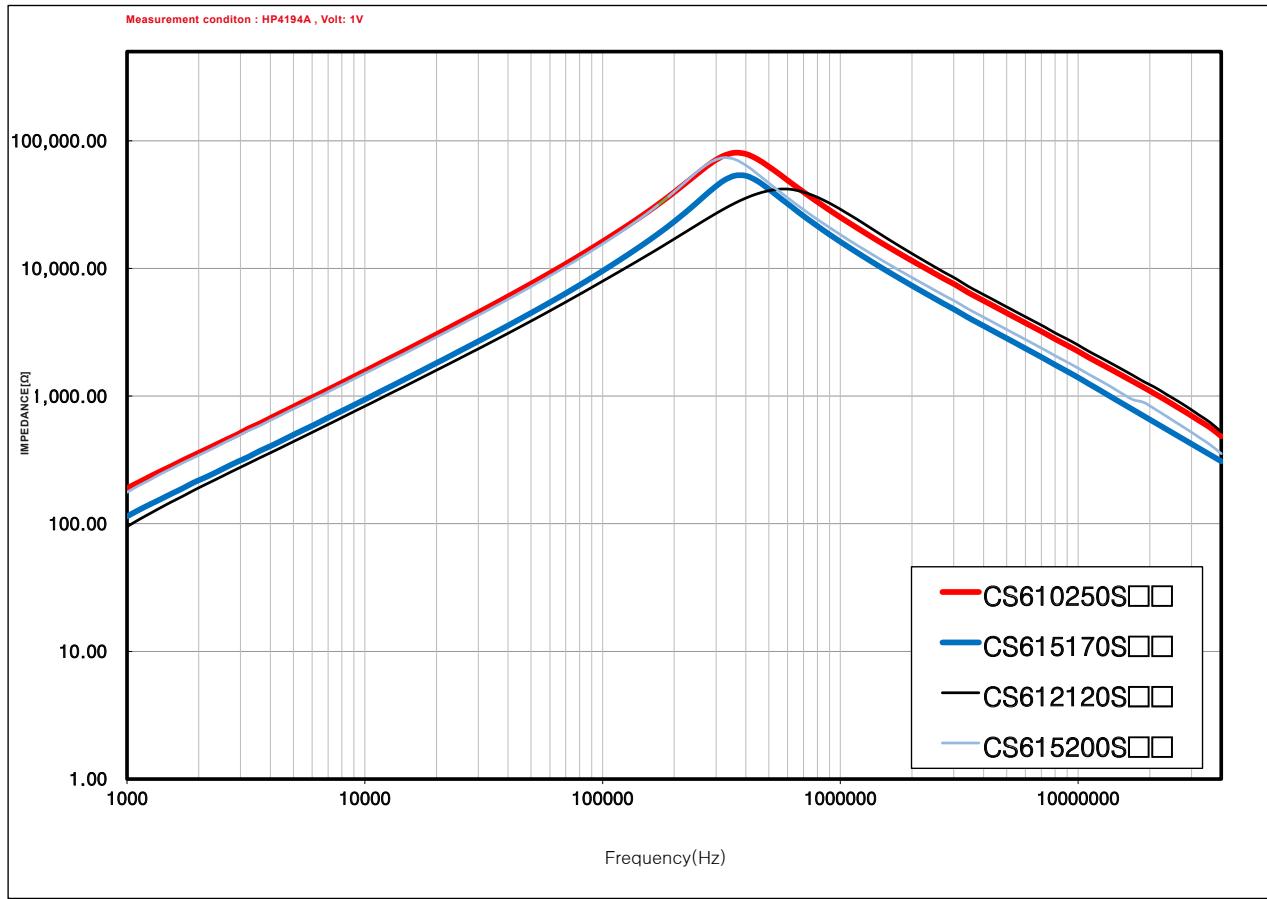


■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
CS610250S□□	1.0	25.0	350	300
CS612120S□□	1.2	12.0	420	300
CS615170S□□	1.5	17.0	220	300
CS615200S□□	1.5	20.5	275	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 120°C
- Winding Temperature Rise(at Rated Current) is under 55°C
- 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

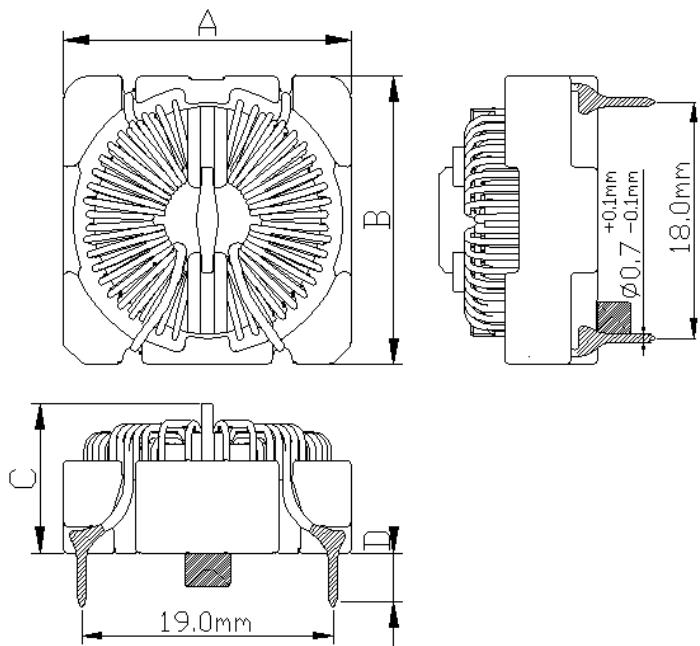
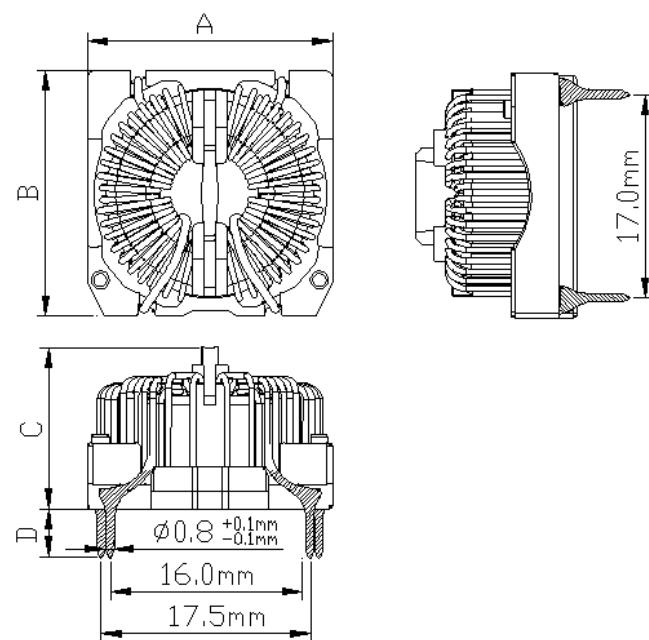


Fig.2 CS6K- SERIES



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

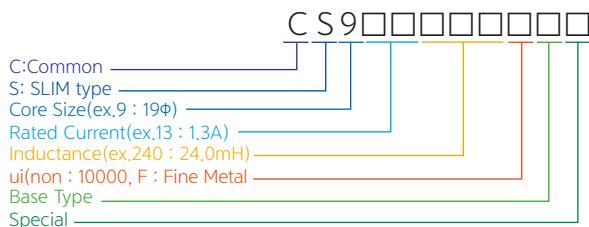
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Common

SLIM 19Φ-SERIES



■ PRODUCT NAME MEANING

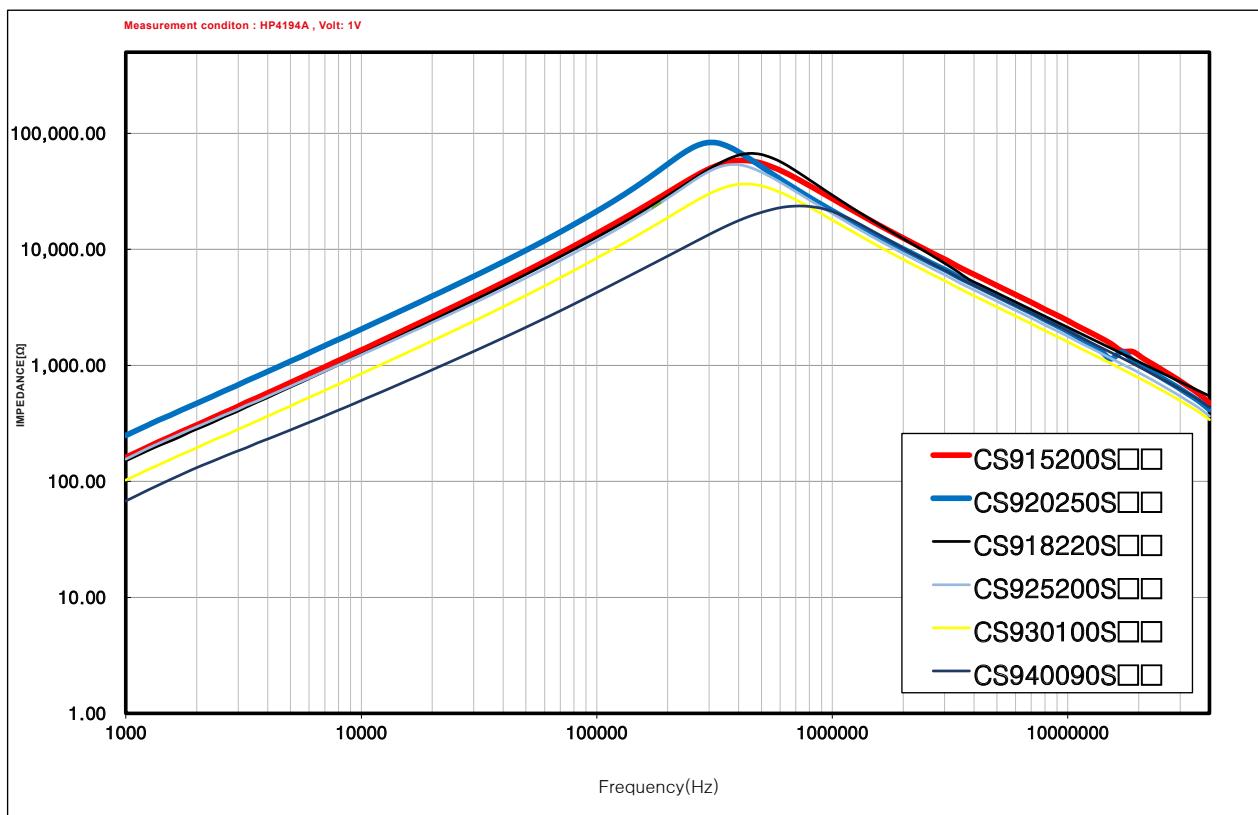


■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
CS915200S□□	1.5	20.0	300.0	300
CS918220S□□	1.8	22.0	235.0	300
CS920250S□□	2.0	25.0	250.0	300
CS925200S□□	2.5	20.0	123.0	300
CS930100S□□	3.0	10.0	80.5	300
CS940090S□□	4.0	9.0	55.0	300

Notice

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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
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■ SHAPE AND DIMENSION

Fig.1 CS9B- SERIES

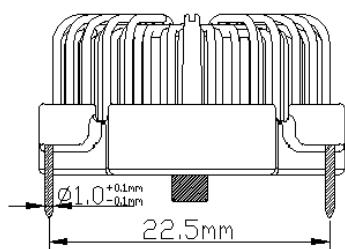
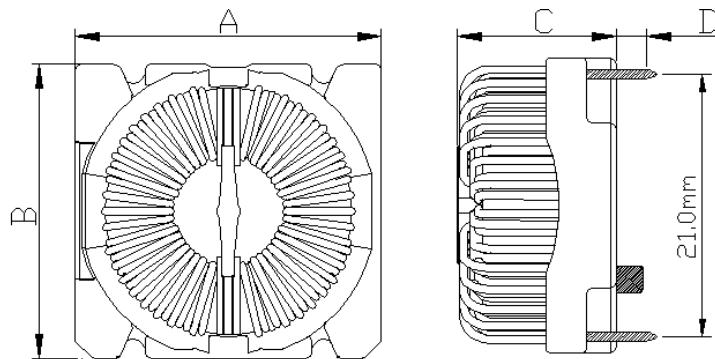
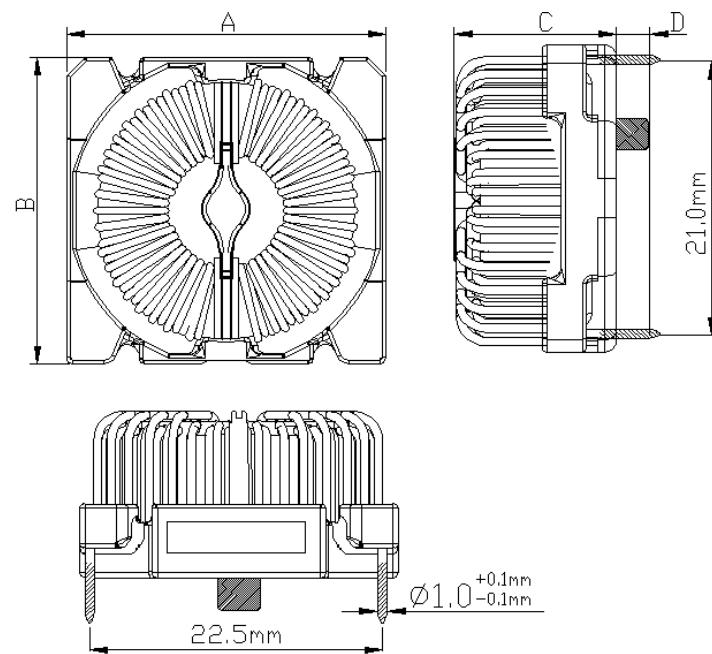


Fig.2 CS9K- SERIES



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

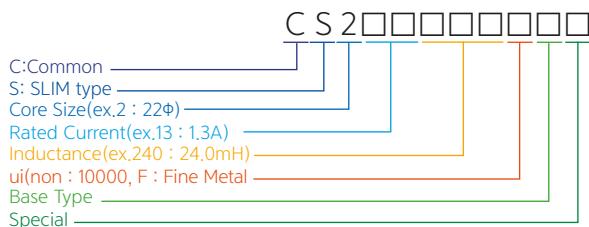
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Common

SLIM 22Φ-SERIES



■ PRODUCT NAME MEANING

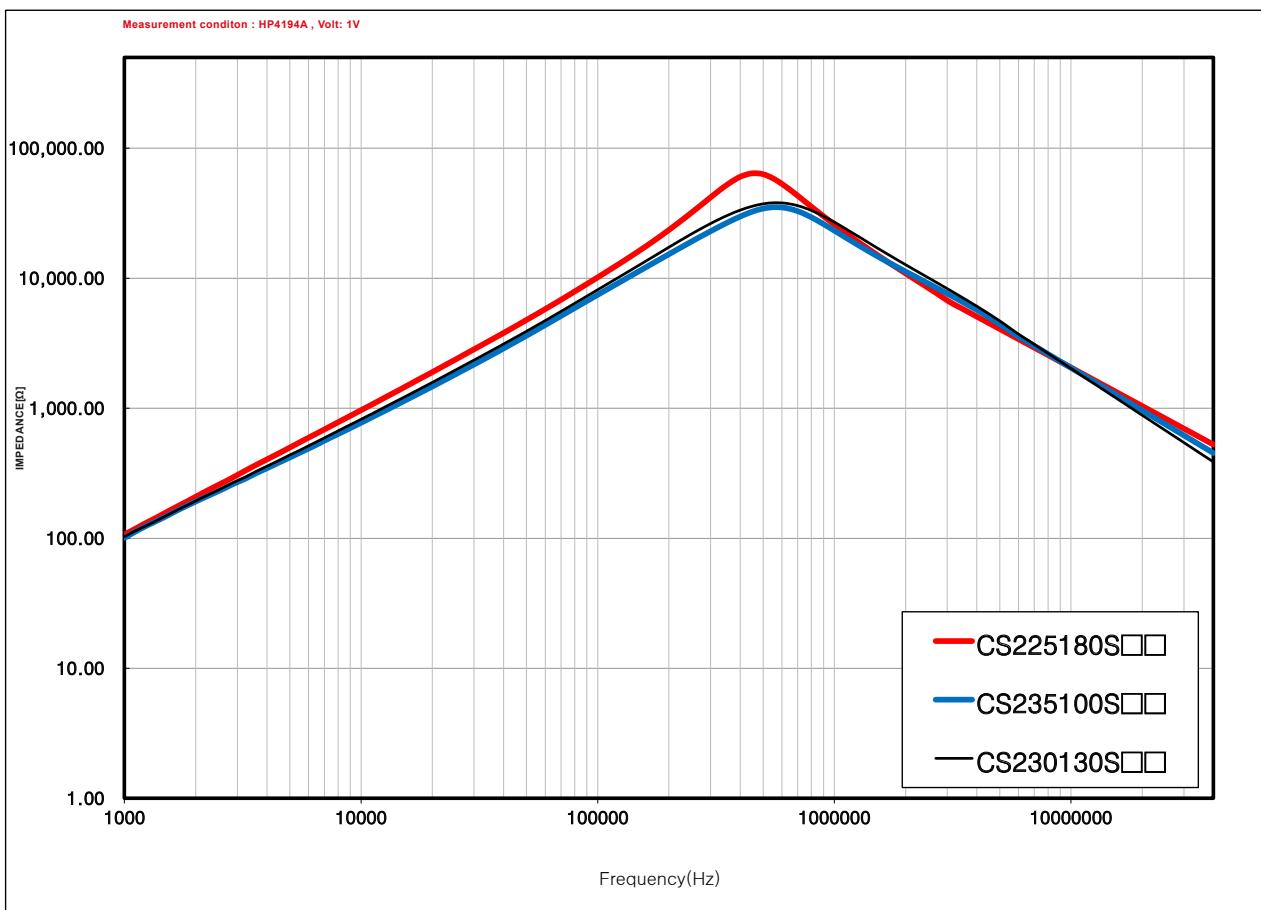


■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
CS225180S□□	2.5	18.0	179	300
CS230130S□□	3.0	13.0	126	300
CS235100S□□	3.5	10.0	105	300

Notice

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- UL94V-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 CS2G- SERIES

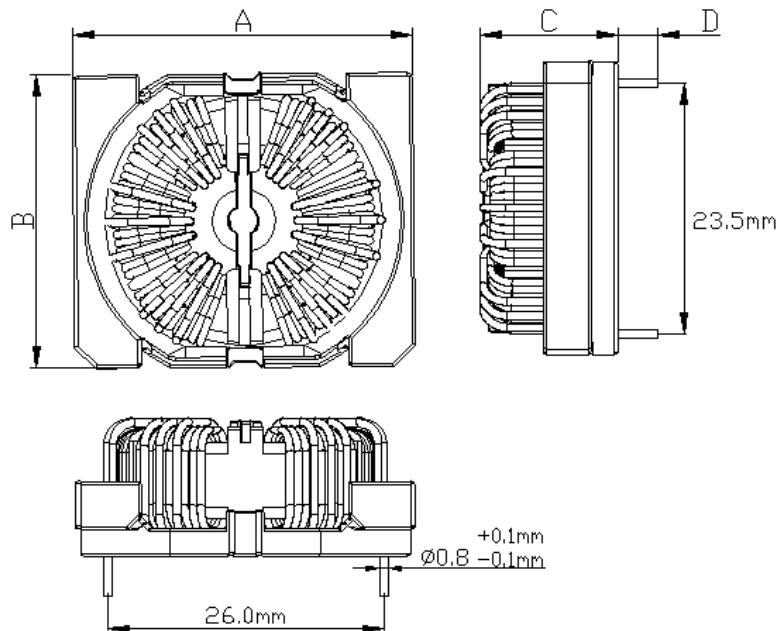
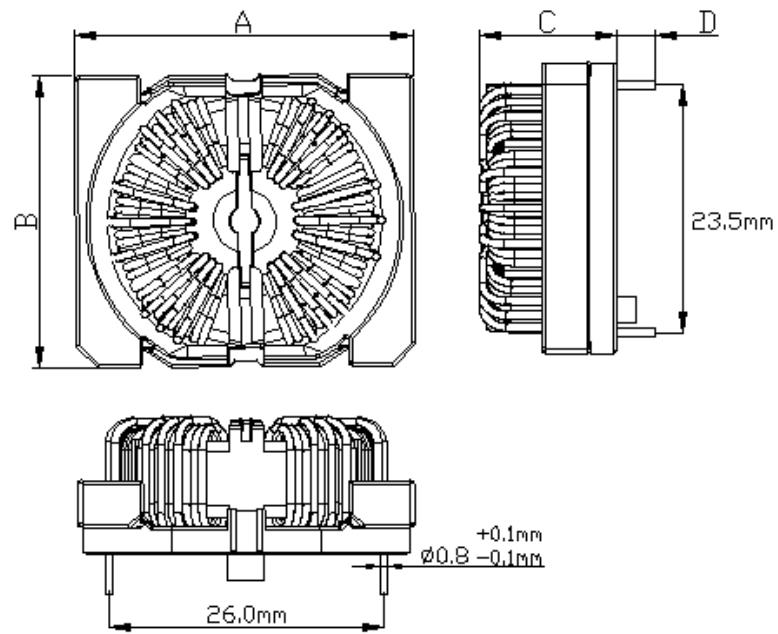


Fig.2 CS2T- SERIES



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

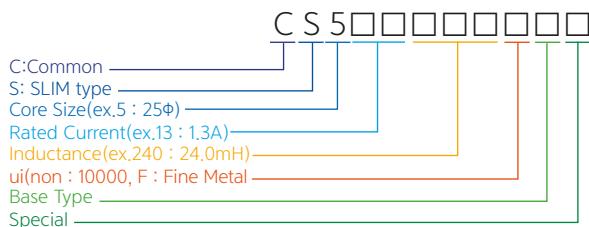
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Common

SLIM 25Φ-SERIES



■ PRODUCT NAME MEANING



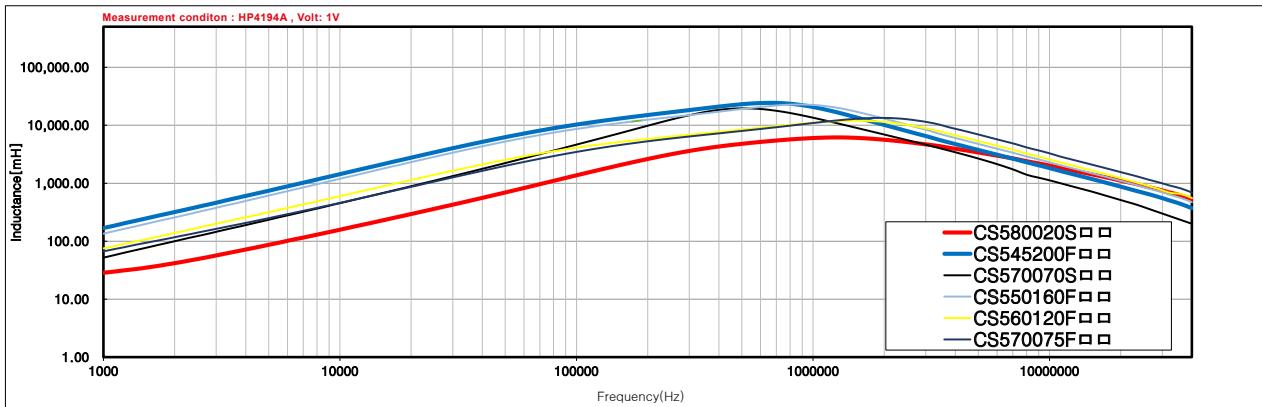
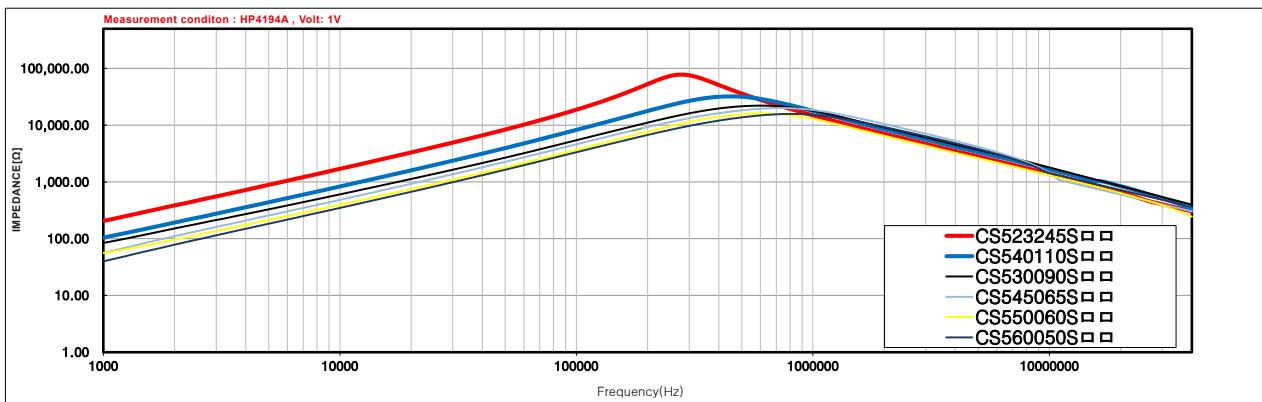
■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
CS523245S□□	2.3	24.5	170	300
CS530090S□□	3.0	9.0	107	300
CS540110S□□	4.0	11.0	85	300
CS545065S□□	4.5	6.5	53	300
CS550060S□□	5.0	6.0	61	300
CS560050S□□	6.0	5.0	44	300
CS580020S□□	8.0	2.0	18	300
CS570070S□□	7.0	7.0	37	300
CS545200F□□	4.5	20.0	55	300
CS550160F□□	5.0	16.0	44	300
CS560120F□□	6.0	12.0	30	300
CS570075F□□	7.0	7.5	25	300
CS580080F□□	8.0	8.0	23	300

Notice

Notice

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- Pb-free solder used
- RoHS free
- Custom made Products are also available
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■ SHAPE AND DIMENSION

Fig.1 CS5Q- SERIES

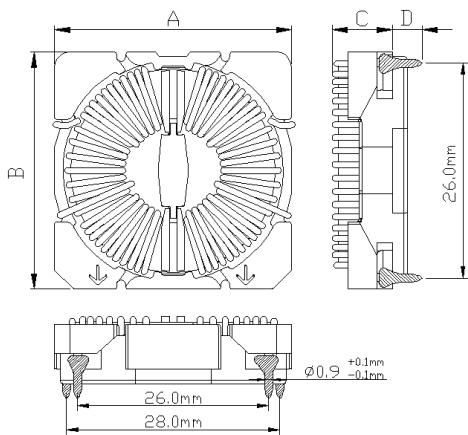


Fig.2 CS5R- SERIES

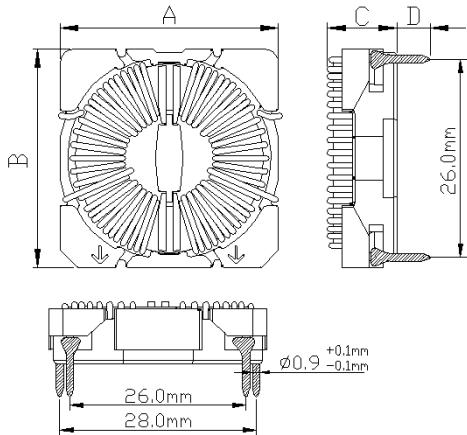


Fig.3 CS5G- SERIES

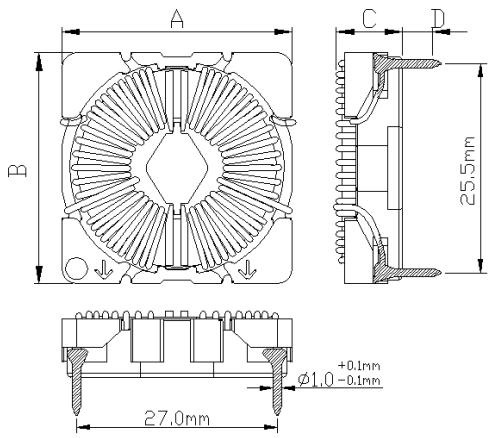


Fig.4 CS5D- SERIES

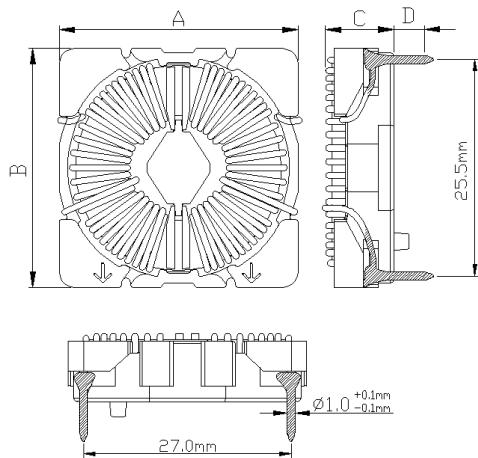


Fig.5 CS5K- SERIES

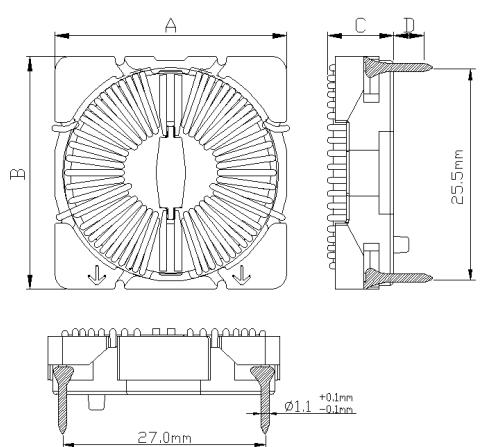
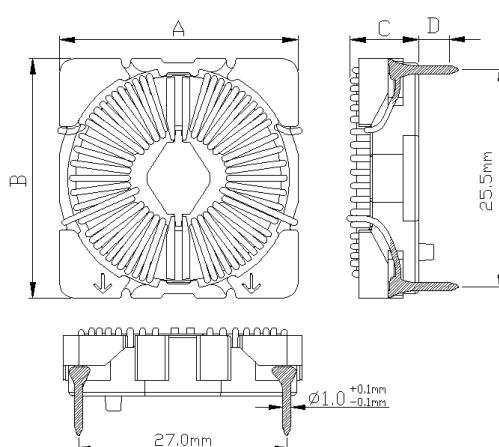


Fig.6 CS5A- SERIES



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

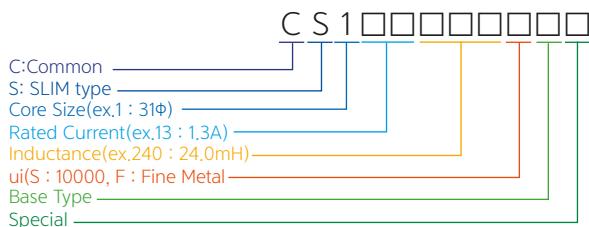
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Common

SLIM 31Φ-SERIES



■ PRODUCT NAME MEANING

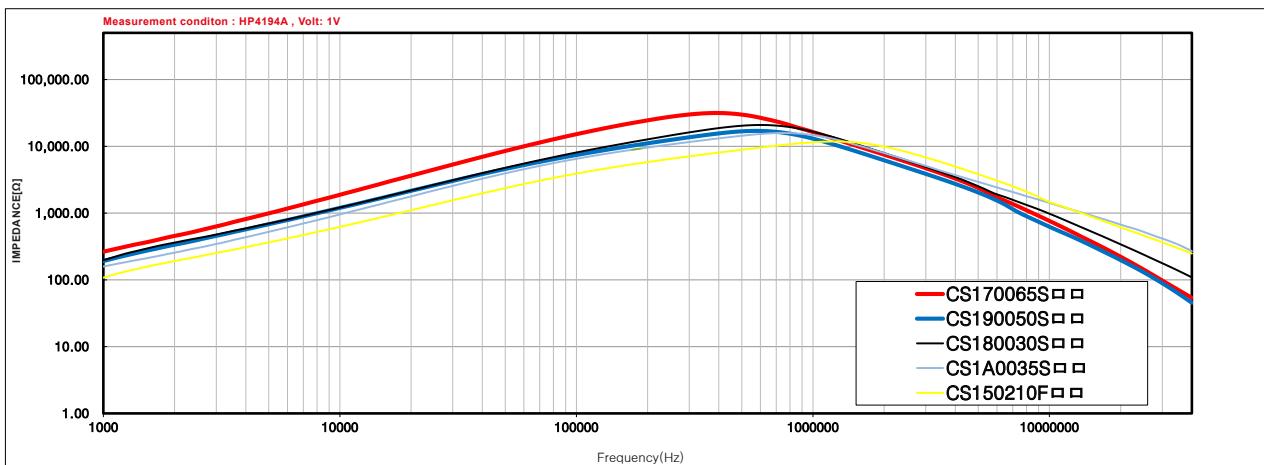
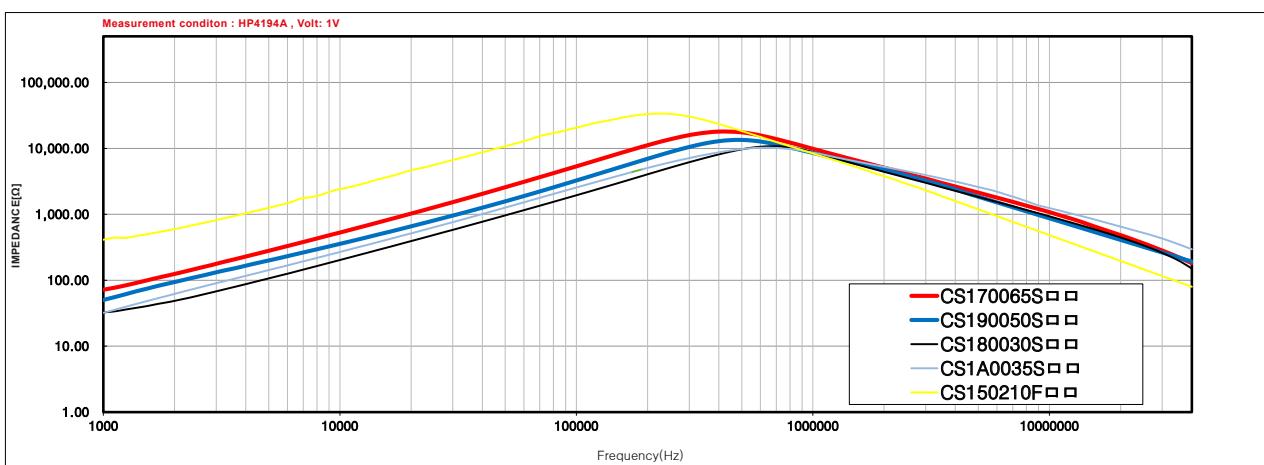


■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
CS170065S□□	7.0	6.5	26	300
CS180030S□□	8.0	3.0 MIN	24	300
CS190050S□□	9.0	5.0	22	300
CS1A0035S□□	10.0	3.5	20	300
CS150210F□□	5.0	21.0	67	300
CS155160F□□	5.5	16.0	58	300
CS170100F□□	7.0	10.0	36	300
CS180080F□□	8.0	8.0	24	300
CS190070F□□	9.0	7.0	21	300
CS1A0050F□□	10.0	5.0	24	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 120°C
- Winding Temperature Rise(at Rated Current)is under 55°C
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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
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■ SHAPE AND DIMENSION

Fig.1 CS1B- SERIES

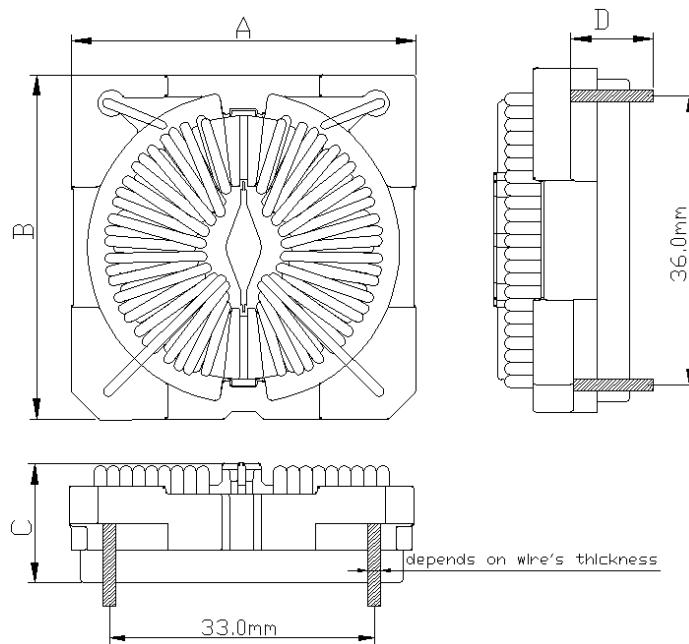
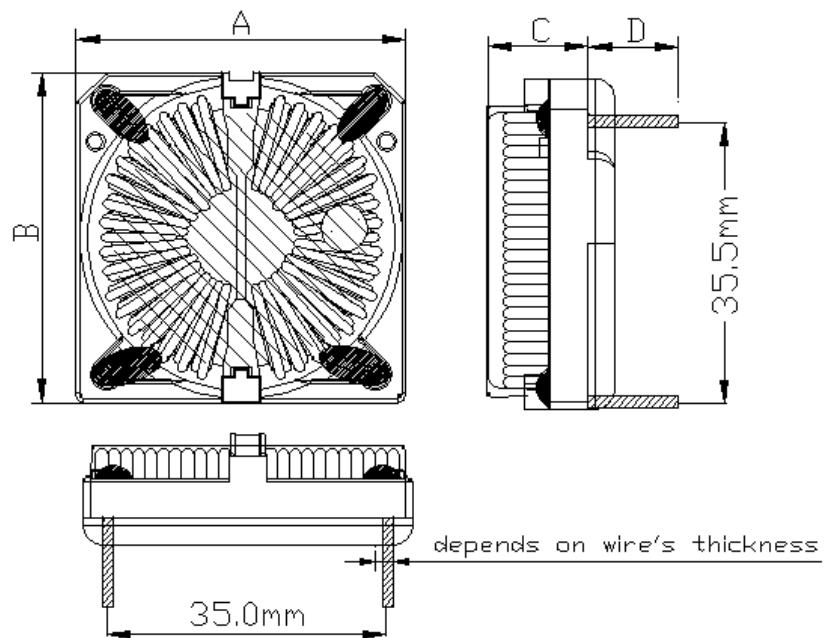


Fig.2 CS1D- SERIES



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

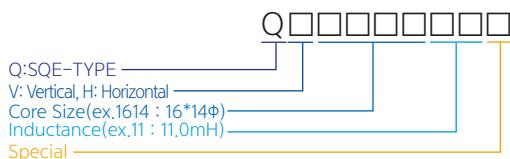
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Common

FLAT WIRE-SERIES



■ PRODUCT NAME MEANING

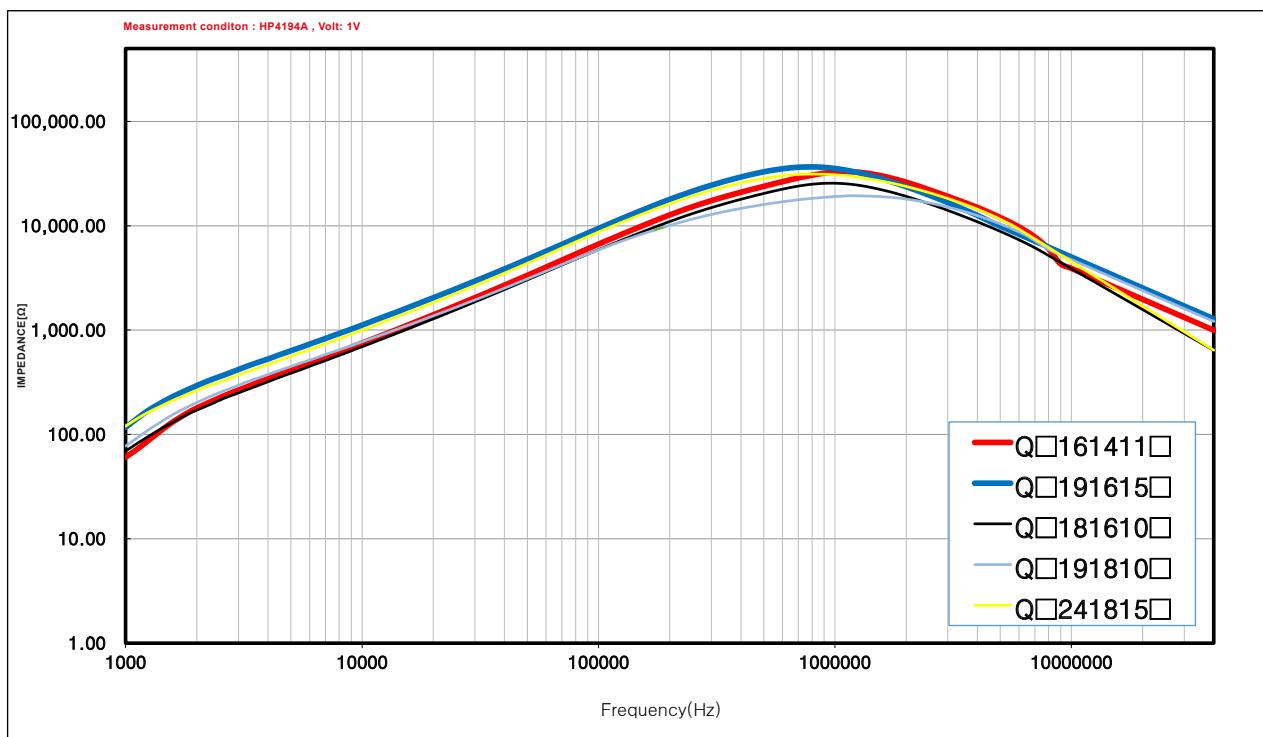


■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance	DC R(mΩ)	Rated Voltage(V)
Q□161411□	1.5	7.7 MIN (@100kHz)	188	300
Q□181610□	2.0	7.0 MIN (@16kHz)	156	300
Q□191615□	1.5	10.5 MIN (@16kHz)	260	300
Q□191810□	2.3	10.0 (@16kHz)	152	300
Q□241815□	3.0	15.0 (@16kHz)	158	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 120°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- 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



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■ SHAPE AND DIMENSION

Fig.1 QV1614- SERIES

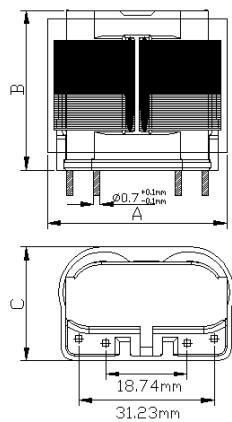


Fig.2 QV1816- SERIES

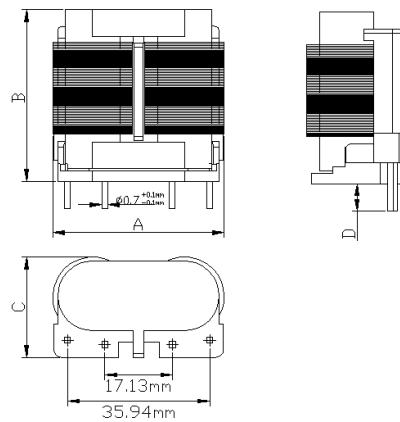


Fig.3 QH1816- SERIES

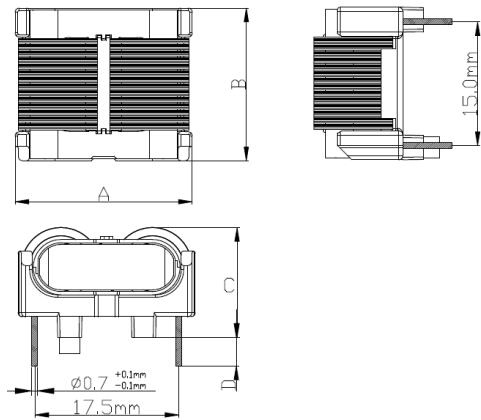


Fig.4 QV1916- SERIES

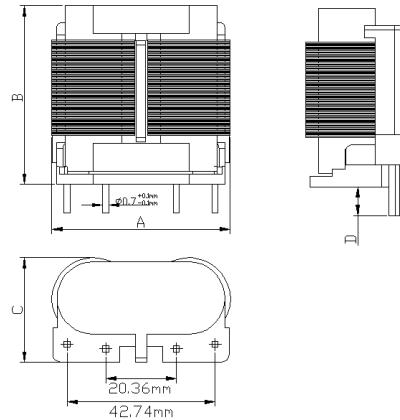
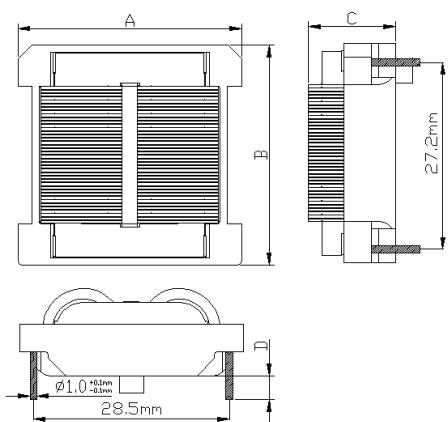


Fig.5 QH2418- SERIES

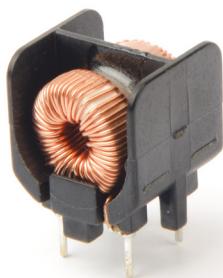


MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
QV1614(FIG.1)	21.0	18.5	14.0	3.0±1.0
QV1816(FIG.2)	25.0	19.5	16.0	4.0±1.0
QH1816(FIG.3)	22.5	19.5	14.5	4.0±1.0
QV1916(FIG.4)	25.0	22.0	16.0	4.0±1.0
QH2418(FIG.5)	30.0	27.0	13.5	4.0±1.0

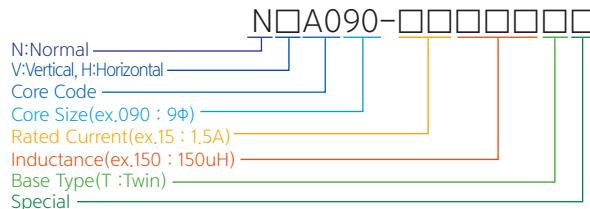
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Normal

9Φ-SERIES



■ PRODUCT NAME MEANING



■ 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(μH)	DC R(mΩ)	Rated Voltage(V)
N□□090-10260□□	1.0	260.0	522	300
N□□090-18085□□	1.8	85.0	181	300
N□□090-20080□□	2.0	80.0	120	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 105°C
- Winding Temperature Rise(at Rated Current) is under 55°C
- 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

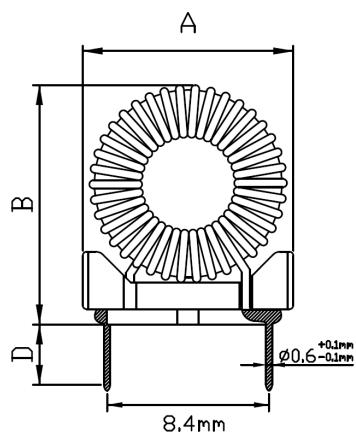


Fig.1 NVA090C- SERIES

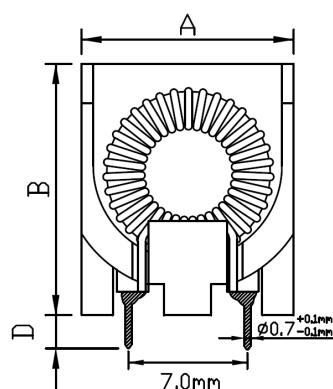
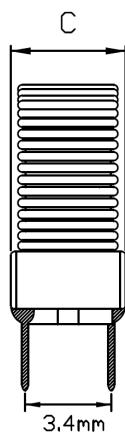


Fig.2 NVA090T- SERIES

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

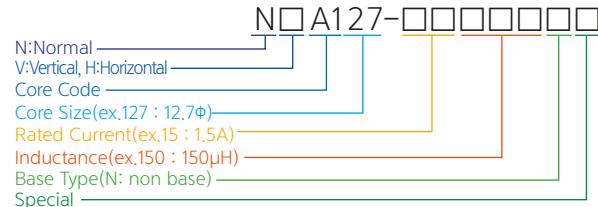
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Normal

12.7Φ-SERIES



■ PRODUCT NAME MEANING



■ 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	290	300
N□□127-15330□□	1.5	330	301	300
N□□127-20220□□	2.0	220	152	300

Part No.	Rated current(A)	Inductance(uH)	DC R(mΩ)	Rated Voltage(V)
N□□127-40082□□	4.0	82	46.0	300
N□□127-45065□□	4.5	65	87.0	300
N□□127-D0004□□	40.0	4	1.2	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 105°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- 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

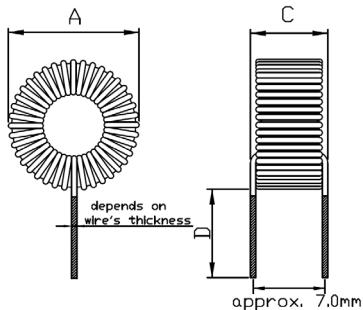


Fig.1
NVA127N- SERIES

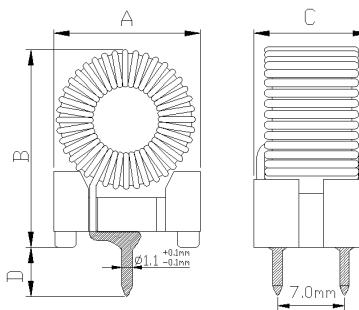


Fig.2
NVA127A- SERIES

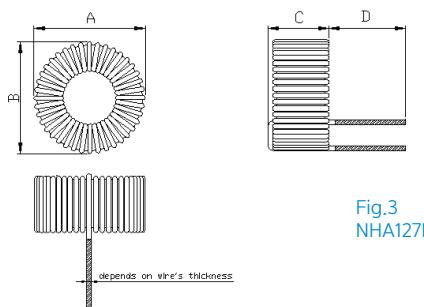


Fig.3
NHA127N- SERIES

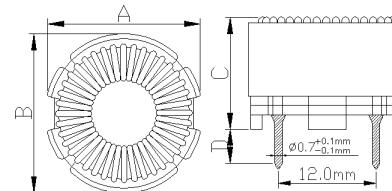


Fig.4
NHA127A- SERIES

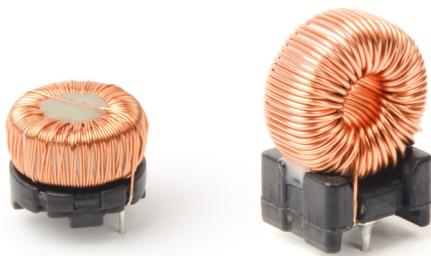
MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
NVA127N(FIG.1)	16.0	16.0	10.0	8.0±2.0
NVA127A(FIG.2)	18.0	22.0	14.0	4.0±1.0

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

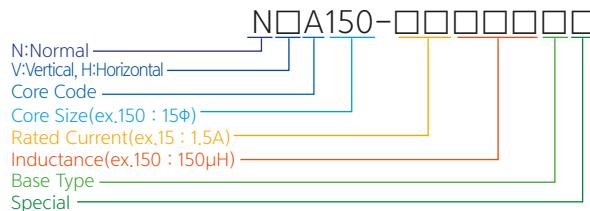
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TNC_NORMA

Normal 15Φ-SERIES



■ PRODUCT NAME MEANING



■ 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(μH)	DC R(mΩ)	Rated Voltage(V)
N□□150-10A00□□	1.0	1000	1152	300
N□□150-30300□□	3.0	300	196	300
N□□150-35200□□	3.5	200	109	300
N□□150-38150□□	3.8	150	80	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 105°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- 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

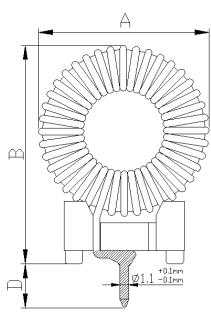


Fig.1 NVA150R- SERIES

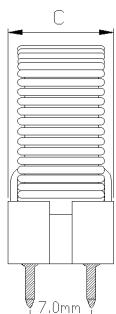


Fig.2 NVA150N- SERIES

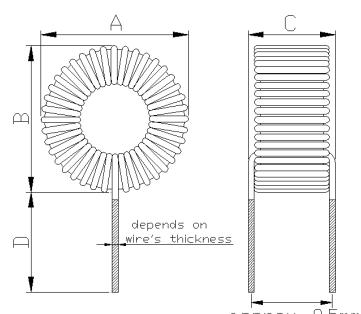


Fig.3 NHA150A- SERIES

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

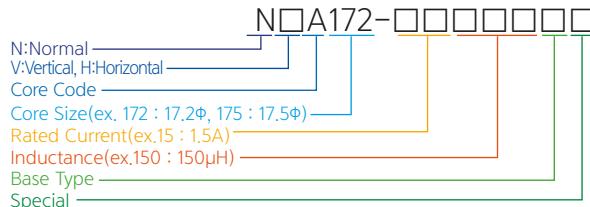
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Normal

17Φ-SERIES



■ PRODUCT NAME MEANING



■ 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(μH)	DCR(mΩ)	Rated Voltage(V)
N□□172-80033□□	8.0	33	24	300
N□□172-90045□□	9.0	45	20	300
N□□172-30670□□	3.0	670	122	300

Part No.	Rated current(A)	Inductance(μH)	DCR(mΩ)	Rated Voltage(V)
N□□175-25400□□	2,5	400	218	300
N□□175-30200□□	3,0	200	140	300
N□□175-70045□□	7,0	45	32	300
N□□175-50045□□	5,0	45	38	300
N□□175-55140□□	5,5	140	53	300
N□□175-65080□□	6,5	80	57	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 105°C
- Winding Temperature Rise(at Rated Current) is under 55°C
- 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

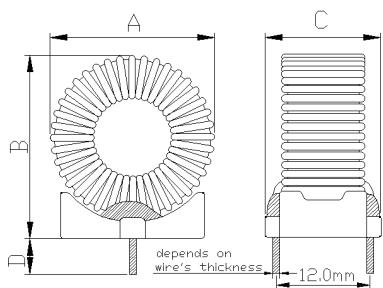


Fig.1 NVS172A- SERIES

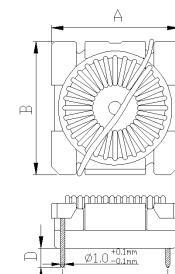


Fig.2 NHS172E- SERIES

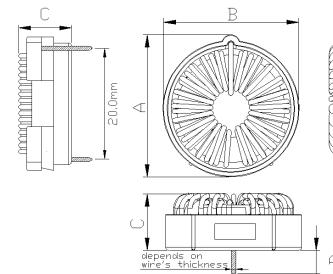


Fig.3 NHS172A- SERIES

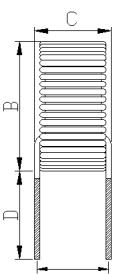


Fig.4 NVA175N- SERIES

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

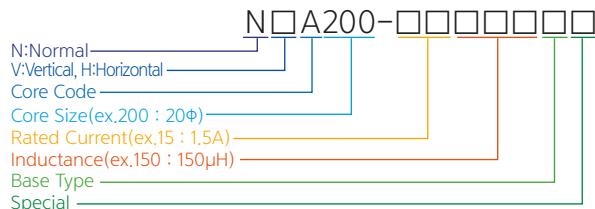
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Normal

20Φ-SERIES



■ PRODUCT NAME MEANING



■ 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(μH)	DC R(mΩ)	Rated Voltage(V)
N□□200-30450□□	3.5	450	140	300
N□□200-50200□□	5.0	200	67	300
N□□200-60150□□	6.0	150	41	300
N□□200-60110□□	6.0	110	43	300
N□□200-65130□□	6.5	130	39	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 105°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- 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

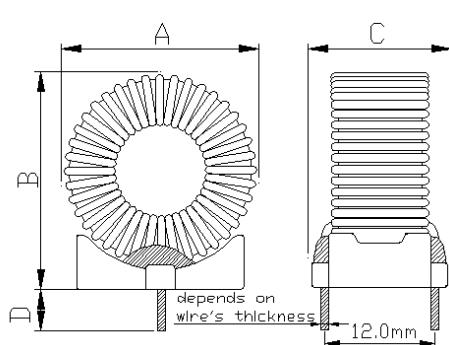


Fig.1 NVA200A- SERIES

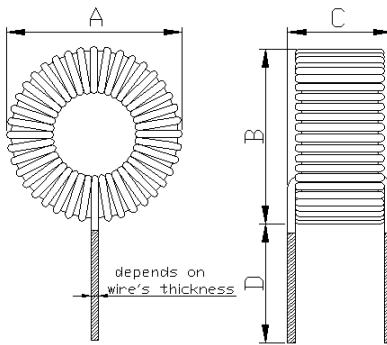


Fig.2 NVA200N- SERIES

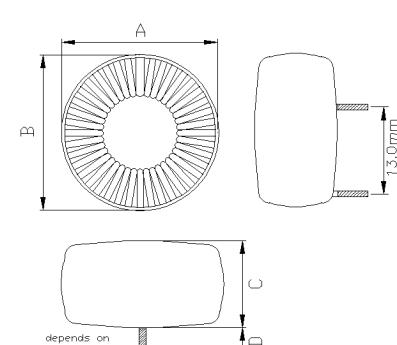


Fig.3 NHA200N- SERIES

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

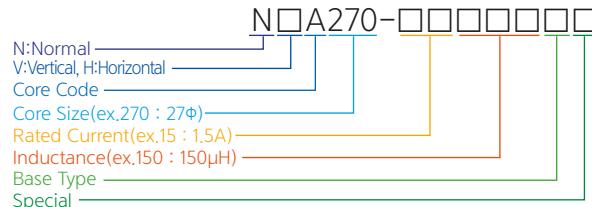
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Normal

27Φ-SERIES



■ PRODUCT NAME MEANING



■ 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(μH)	DC R(mΩ)	Rated Voltage(V)
N□□270-40013□□	4.0	1300	142	300
N□□270-50500□□	5.0	500	66	300
N□□270-70300□□	7.0	300	38	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 105°C
- Winding Temperature Rise(at Rated Current) is under 55°C
- 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

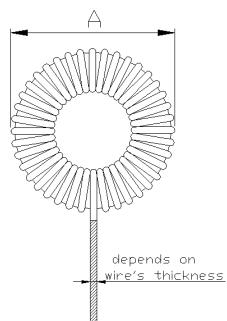


Fig.1 NVB270N- SERIES

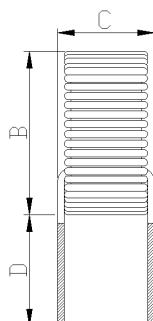


Fig.2 NVA270K- SERIES

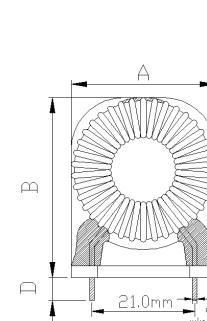
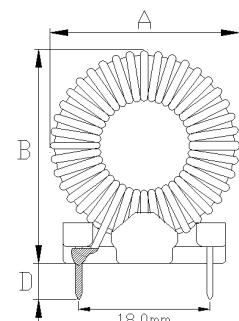


Fig.3 NVB270D- SERIES

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

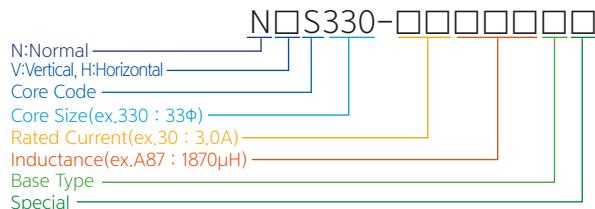
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Normal

33Φ-SERIES



■ PRODUCT NAME MEANING



■ 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(μH)	DC R(mΩ)	Rated Voltage(V)
N□□330-30A87□□	3.0	1870	350	300
N□□330-80260□□	8.0	260	49	300
N□□330-80300□□	8.0	300	40	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 105°C
- Winding Temperature Rise(at Rated Current) is under 55°C
- 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

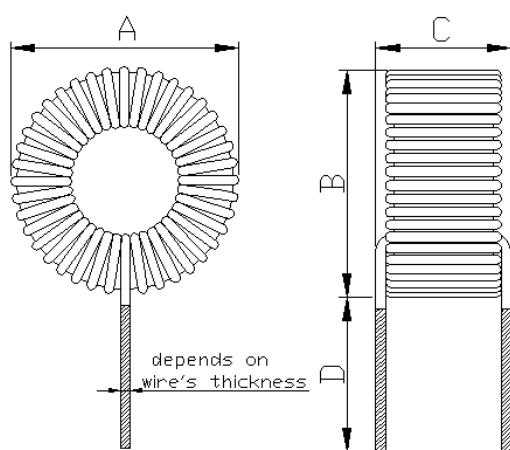


Fig.1 NVS330N- SERIES

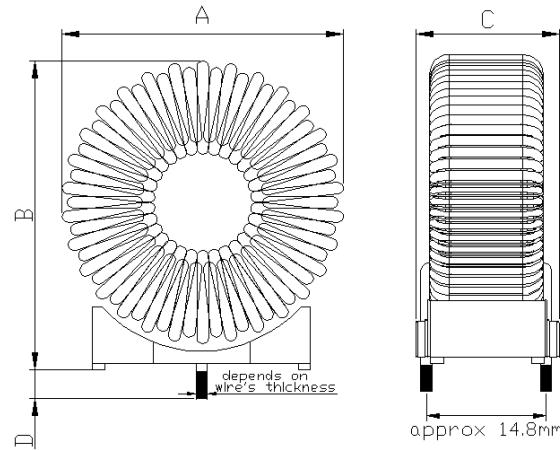


Fig.2 NVS330B- SERIES

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

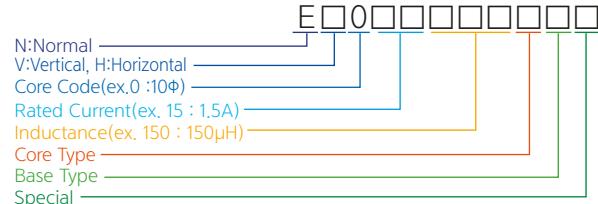
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Normal

EV-SERIES



■ PRODUCT NAME MEANING



■ 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(μH)	DC R(mΩ)	Rated Voltage(V)
E□0B0005N□□	20.0	5	4	300
E□0B00018N□□	20.0	18	6	300
E□1B0080S□□	20.0	80	9	300

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -30°C to 105°C
- Winding Temperature Rise(at Rated Current) is under 55°C
- 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

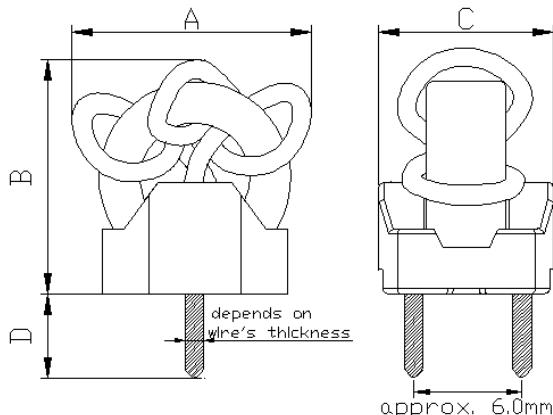


Fig.1 EV0A- SERIES

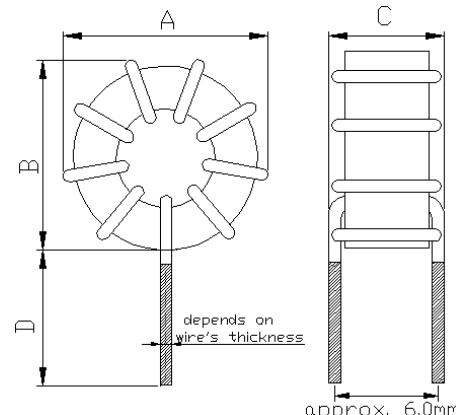


Fig.2 EV0N- SERIES

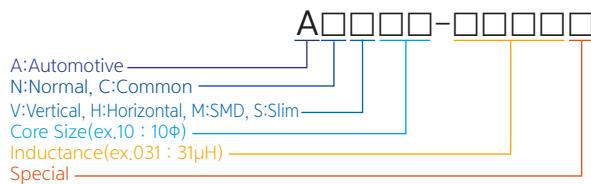
MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
EV0□A(FIG.1)	15.0	14.9	11.0	4.0±1.0
EV0□N(FIG.2)	15.0	14.0	9.0	8.0±2.0

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Automotive ACV SERIES



■ PRODUCT NAME MEANING



■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(μH)	DC R(mΩ)	Rated Voltage(V)
ACV08-020M3	0.5	2000	400	DC 30
ACV10-031U2	4.0	31	21	DC 120
ACV13-650UA	4.0	650	34	DC 100
ACV16-170UA	15.0	170	8	DC 450
ACV22-600UA	13.0	600	12	DC 450

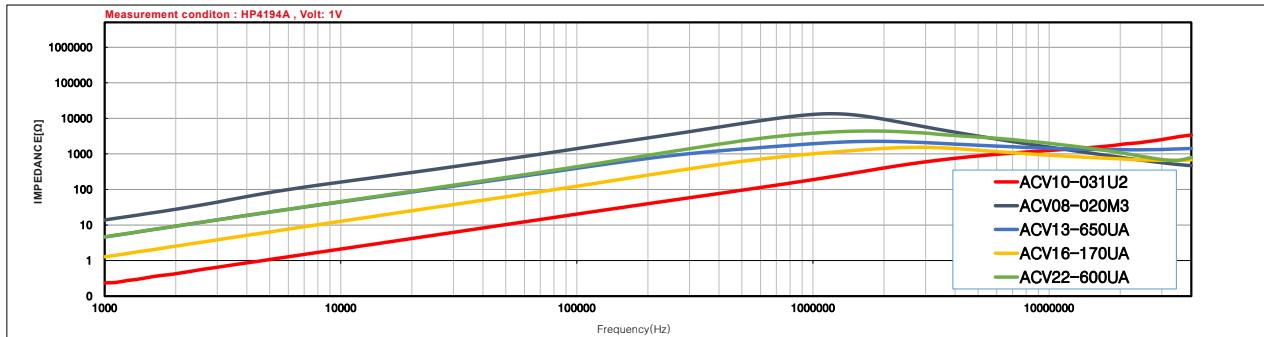
Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -40°C to 130°C
- Winding Temperature Rise(at Rated Current) is under 55°C
- 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

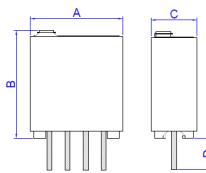


Fig.1 Automotive - ACV SERIES

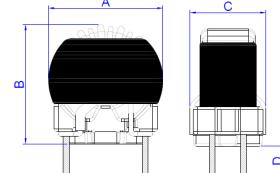


Fig.2

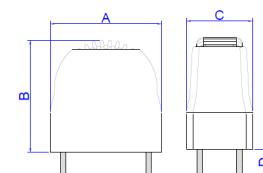


Fig.3

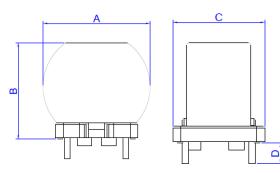


Fig.4

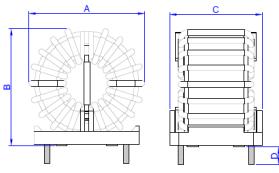


Fig.5

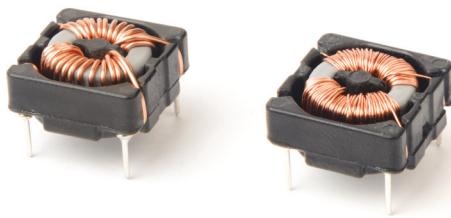
MODEL TYPE	A(mm)	B(mm)	C(mm)	D(mm)
Automotive(FIG.1)	13.0	15.5	8.0	4.0±1.0
Automotive(FIG.2)	14.0	15.0	11.0	3.2±0.5
Automotive(FIG.3)	18.0	20.0	11.0	3.8±0.5

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

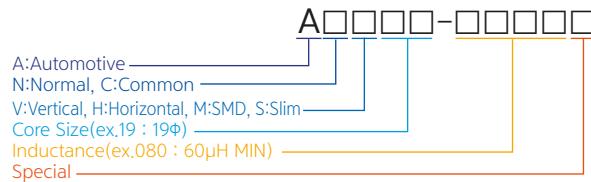
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Automotive

ACH SERIES



■ PRODUCT NAME MEANING



■ PART NUMBER AND SPECIFICATIONS

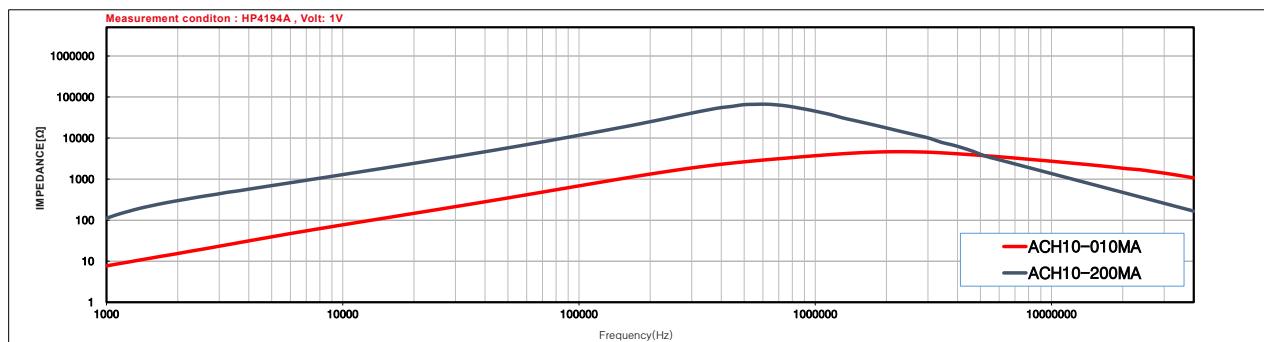
Part No.	Rated current(A)	Inductance(mH)	DC R(mΩ)	Rated Voltage(V)
ACH10-010MA	2.5	1.0	3.6	DC 300
ACH10-200MA	0.5	20.0	1194.0	DC 250

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -40°C to 105°C
- Winding Temperature Rise(at Rated Current) is under 55°C
- 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

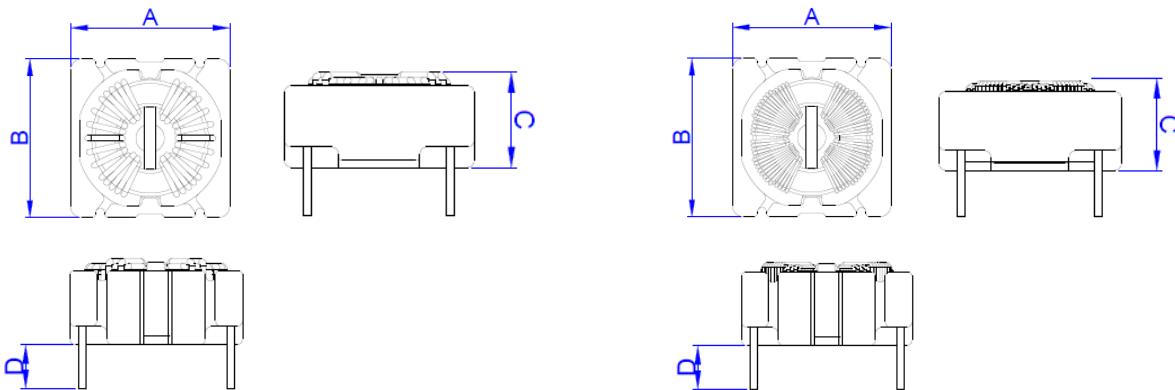


Fig.1 Automotive – ACH SERIES

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



■ PART NUMBER AND SPECIFICATIONS

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

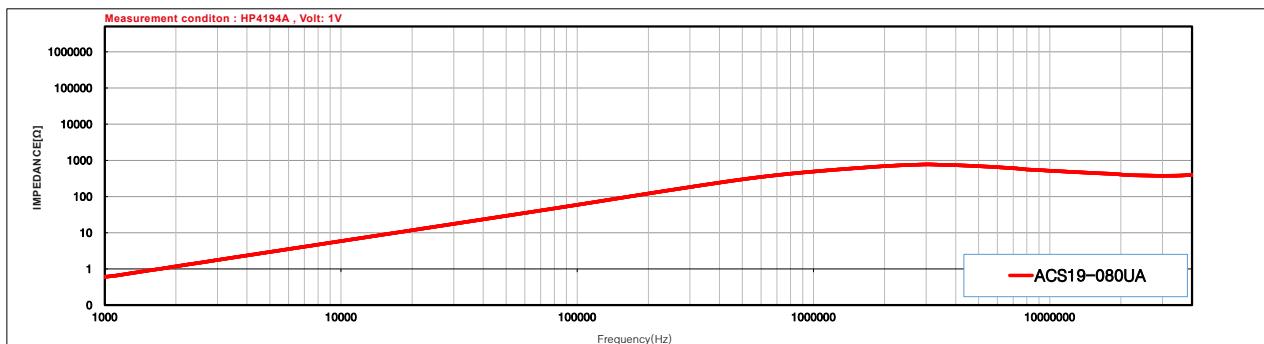
Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -40°C to 120°C
- Winding Temperature Rise(at Rated Current) is under 55°C
- 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

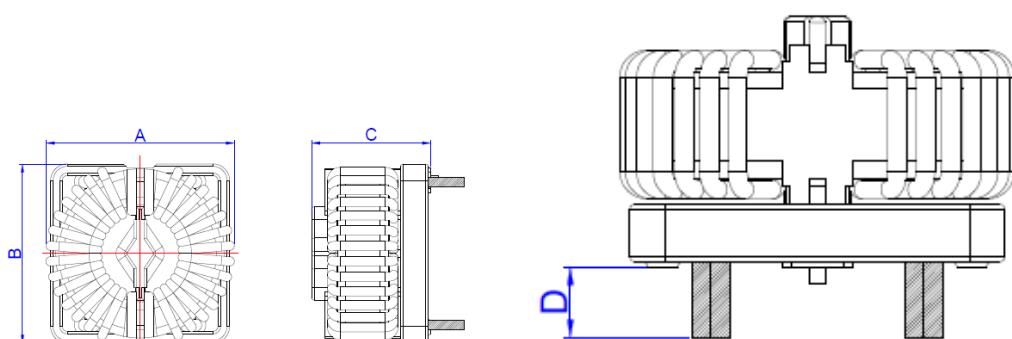


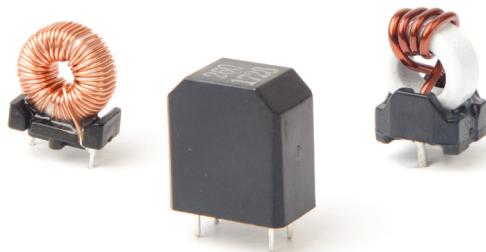
Fig.1 Automotive – ACH SERIES

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



■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(μH)	DC R(mΩ)	Rated Voltage(V)
ANV09-080U2	2.0	80.0	120	DC 120
ANV09-260UA	1.0	260.0	522	DC 450
ANV10-007UA	13.0	7.5	6	DC 100

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -40°C to 130°C
- Winding Temperature Rise(at Rated Current) is under 55°C
- 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

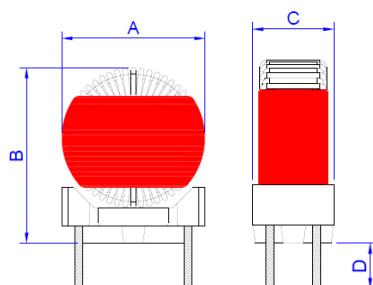
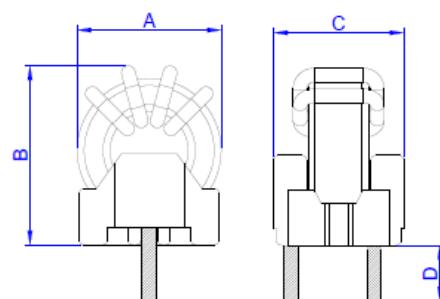
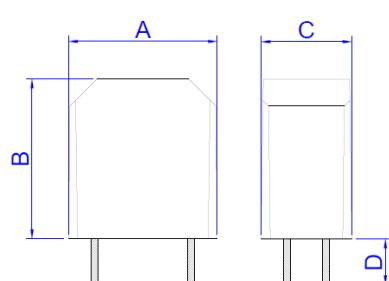


Fig.1 Automotive – ANV SERIES



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



■ PART NUMBER AND SPECIFICATIONS

Part No.	Rated current(A)	Inductance(μH)	DC R(mΩ)	Rated Voltage(V)
ANH13-045UA	4.0	45.0	67.0	DC 300
ANH33-010UA	60.0	10.5	1.3	DC 300
ANH33-010UB	60.0	10.5	1.3	DC 120

Notice

- Operating Temperature Range(Ambient Temperature Range and Winding Temperature Rise) : -40°C to 120°C
- Winding Temperature Rise(at Rated Current)is under 55°C
- 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

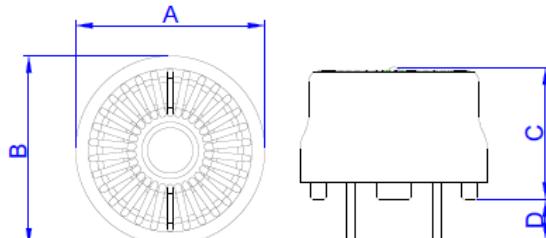


Fig.1 Automotive – ANH SERIES

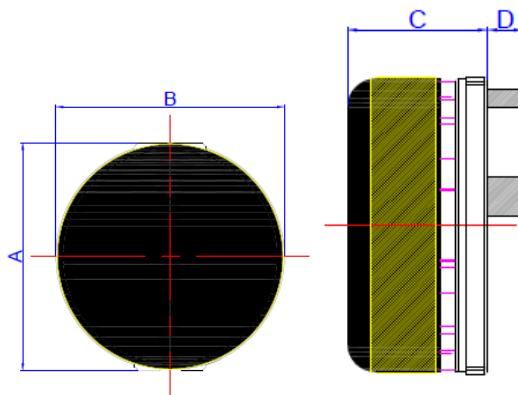


Fig.2

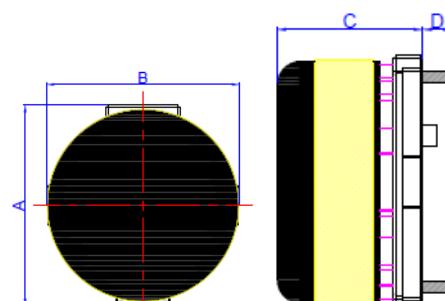


Fig.3

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

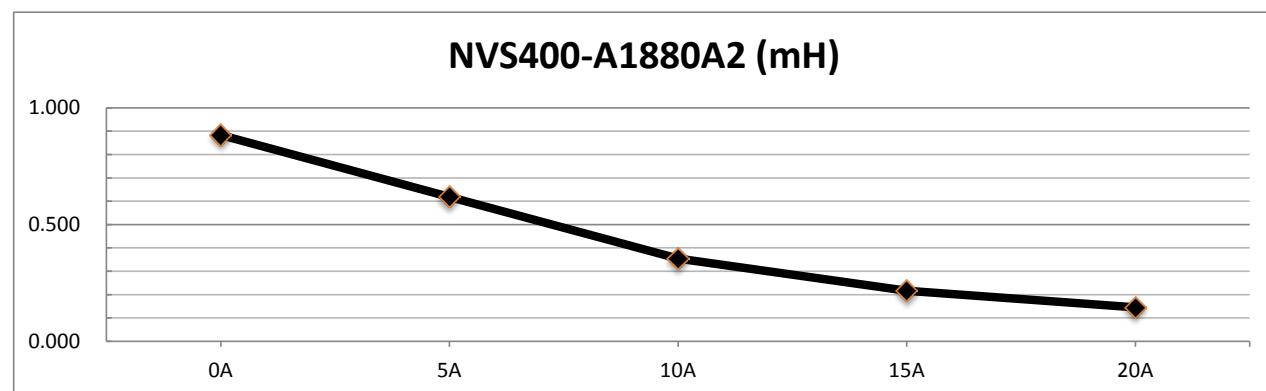
NVS400-A1880A2



■ STANDARD SPECIFICATIONS

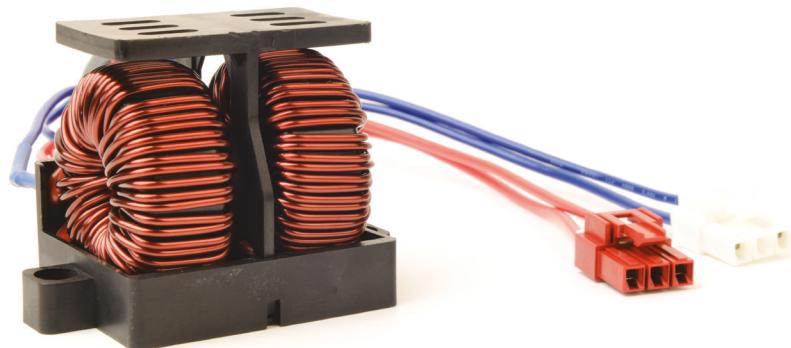
Part No.	NVS400-A1880A2
Division	DC
Capacity	3kW
Form	Toroidal
L (mH)	0.880
Current(A)	11
Wire Φ	1.50

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



REACTOR

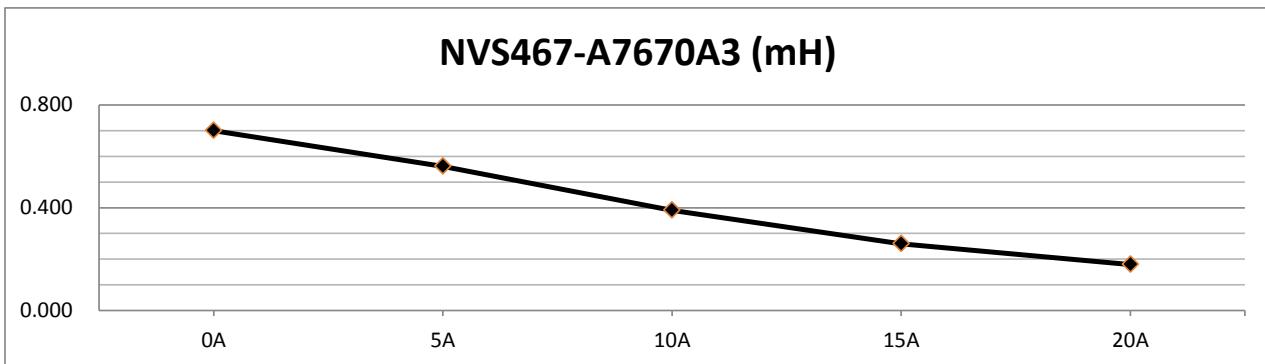
NVS467-A7670A3



■ 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□



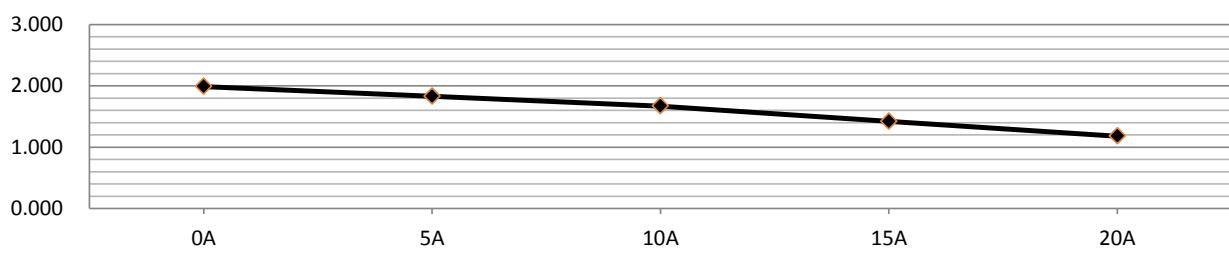
STANDARD SPECIFICATIONS

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



AHK740-1-A5B00□ (mH)



REACTOR

AHK740-2-B0800□



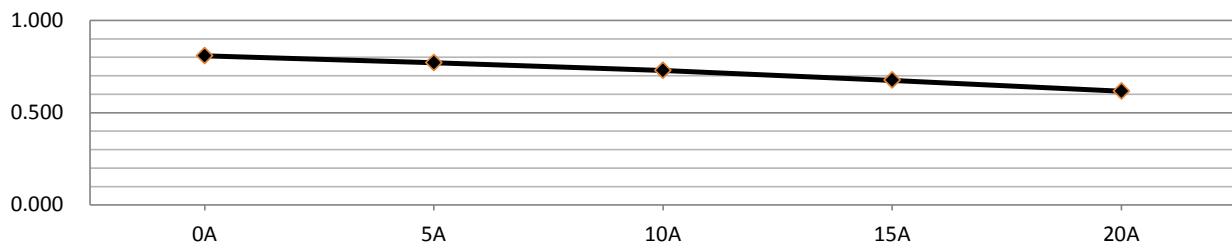
■ STANDARD SPECIFICATIONS

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



AHK740-2-B0800□ (mH)

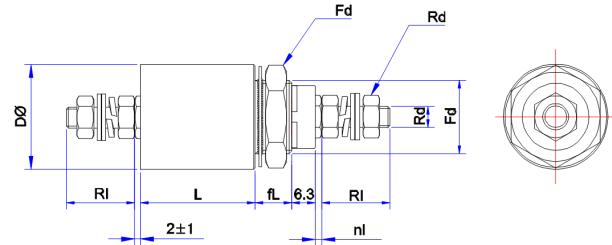


FEEDTHROUGH FILM CAPACITORS

FLS series



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



■ TECHNICAL CHARACTERISTICS AND DIMENSION

type no	current (A.max)	capacitance (μ F)	Rated Voltage		Test Voltage (Vdc)	Leakage current (mA/60Hz)	Dimension (mm)						
			(Vdc)	(Vac)			D ϕ	L	Fd ϕ (FN)	fl	Rd ϕ (RN)	RI	nl
FLSB-3AR010MB	32A	0.01 μ F	1,000	440	3,000	1.7	20	19	14	8	M4	13	2±1
FLSB-3AR022MB		0.022 μ F	1,000	440	3,000	3.6	20	19	14	8	M4	13	2±1
FLSB-3AR047MB		0.047 μ F	1,000	250	2,500	4.4	20	19	14	8	M4	13	2±1
FLSB-2A0100MB		1.0 μ F	200	100	500	37.7	20	33	14	8	M4	13	2±1
FLSC-3AR100M2	75A	0.1 μ F	1,000	250	2,500	9.4	30	21	18	10	M6	17	3±1
FLSC-2HR100MB		0.1 μ F	1,000	440	3,000	110/400Hz	30	31	18	10	M6	17	3±1
FLSC-3AR220MB		0.22 μ F	1,000	250	2,500	20.7	30	31	18	10	M6	17	3±1
FLSC-3AR470MB		0.47 μ F	1,000	250	2,500	44.3	30	35	18	10	M6	17	3±1
FLSC-2D0100M2		1.0 μ F	1,000	250	2,500	94.2	30	45	18	10	M6	17	3±1
FLSD-3AR220MB	100A	0.22 μ F	1,000	250	2,500	20.7	30	31	18	10	M8	20	4±1
FLSD-3AR470MB		0.47 μ F	1,000	250	2,500	44.3	53	31	32	15	M8	20	4±1
FLSD-3A0100MB		1.0 μ F	1,000	250	2,500	94.2	53	31	32	15	M8	20	4±1
FLSD-3A2R20MB		2.2 μ F	1,000	250	2,500	207.3	53	45	32	15	M8	20	4±1
FLSE-3AR470MB	200A	0.47 μ F	1,000	250	2,500	44.3	53	33	32	15	M10	25	5±1
FLSE-3A0100MB		1.0 μ F	1,000	250	2,500	94.2	53	33	32	15	M10	25	5±1
FLSE-3A2R20MB		2.2 μ F	1,000	250	2,500	207.3	53	47	32	15	M10	25	5±1
FLSF-3AR470MB	300A	0.47 μ F	1,000	250	2,500	44.3	53	35	32	15	M12	31	6±1
FLSF-3A0100MB		1.0 μ F	1,000	250	2,500	94.2	53	35	32	15	M12	31	6±1
FLSF-3A2R20MB		2.2 μ F	1,000	250	2,500	207.3	53	49	32	15	M12	31	6±1
FLSG-3AR470MB	400A	0.47 μ F	1,000	250	2,500	44.3	53	38	32	15	M16	36	8±1
FLSG-3A0100MB		1.0 μ F	1,000	250	2,500	94.2	53	38	32	15	M16	36	8±1
FLSG-3A2R20MB		2.2 μ F	1,000	250	2,500	207.3	53	52	32	15	M16	36	8±1
FLSH-3AR470MB	500A	0.47 μ F	1,000	250	2,500	44.3	53	41	32	15	M18	45	9±1
FLSH-3A0100MB		1.0 μ F	1,000	250	2,500	94.2	53	45	32	15	M18	45	9±1
FLSH-3A2R20MB		2.2 μ F	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
0.01 μ F	—	—	4	20	30	45	70	
0.02 μ F	—	—	10	20	35	55	80	
0.05 μ F	—	1	15	35	45	60	80	
0.1 μ F	—	5	20	30	60	80	90	
0.2 μ F	—	10	28	40	70	90	90	
0.47 μ F	2	15	35	45	80	90	90	
1.0 μ F	5	25	45	50	85	90	90	
2.2 μ F	10	30	50	55	90	90	90	
4.7 μ F	15	35	55	65	90	90	90	

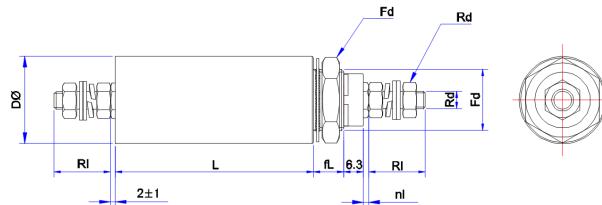


FEEDTHROUGH FILM CAPACITORS

FPC series



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



■ TECHNICAL CHARACTERISTICS AND DIMENSION

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

■ INSERTION LOSS

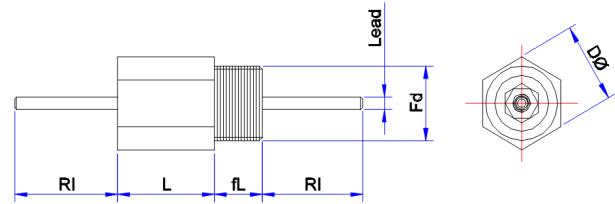
FPC Series (dB)		10kHz	100kHz	1MHz	10MHz	100MHz	300MHz	1GHz
0.01 μ F×2	-	-	4	25	55	70	90	
0.02 μ F×2	-	-	11	30	55	80	90	
0.05 μ F×2	-	1	17	35	60	80	90	
0.1 μ F×2	2	10	45	90	100	100	100	
0.2 μ F×2	3	20	50	90	100	100	100	
0.5 μ F×2	5	30	70	90	100	100	100	
1.0 μ F×2	10	40	70	100	100	100	100	
2.2 μ F×2	15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



FEEDTHROUGH FILM CAPACITORS

FLM series

- * Metallized polypropylene film capacitors
- * Operating temperature : -45°C ~ +85°C
- * 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 (A.max)	capacitance (μF)	Rated Voltage (Vdc)	Test Voltage (Vdc)	Dimension (mm)								
					D ϕ	L	F $d\phi$ (FN)	fL	Lead(ϕ)	RI	R $d\phi$ (RN)	RI	nl
FLMA-2AR010M	10A	0.01 μF	100	600	13	16	12	8	2	10	M4	13	2±1
FLMA-2AR020M		0.02 μF	100	600	13	16	12	8	2	10	M4	13	2±1
FLMA-2AR100M		0.1 μF	100	300	13	16	12	8	2	10	M4	13	2±1
FLMA-2AR200M		0.2 μF	100	300	16	16	15	8	2	13	M4	13	2±1
FLMA-2AR260M		0.26 μF	100	300	16	16	15	8	2	13	M6	17	3±1

■ INSERTION LOSS

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





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