Electronic Components

TOKIN

A KEMET Company

APPLICATION GUIDE

ENGLISH Vol. 14

⚠

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9095TAGVOL14E1703E0

1 Smart Phone
2 Tablet PC & Note PC
3 xDSL Modem
4 Inkjet Printer
5 Disc Drive Unit [CD/DVD/BD]

Home information appliances

6 Copying Machine

Office automation equipments

7 Flat Panel TV
8 BD/HDD Recorder
9 Game Machine
10 DVC
11 Digital Camera
12 Set-Top Box

Audio-video equipments

13 Air Conditioner
14 Inverter Refrigerator
15 Inverter Laundry Machine
16 IH Rice Cooker

Home electric appliances

17 Fluorescent Light Fittings
18 Power Conditioner
19 Smart Meter

Housing equipments

20 Car Electronics

Car electronics equipments

21 Hard Disc Drive
22 DC/DC Converter
23 Rapid Charger

Others

24 **PRODUCT LIST**

ENGLISH Vol. 14

APPLICATION GUIDE

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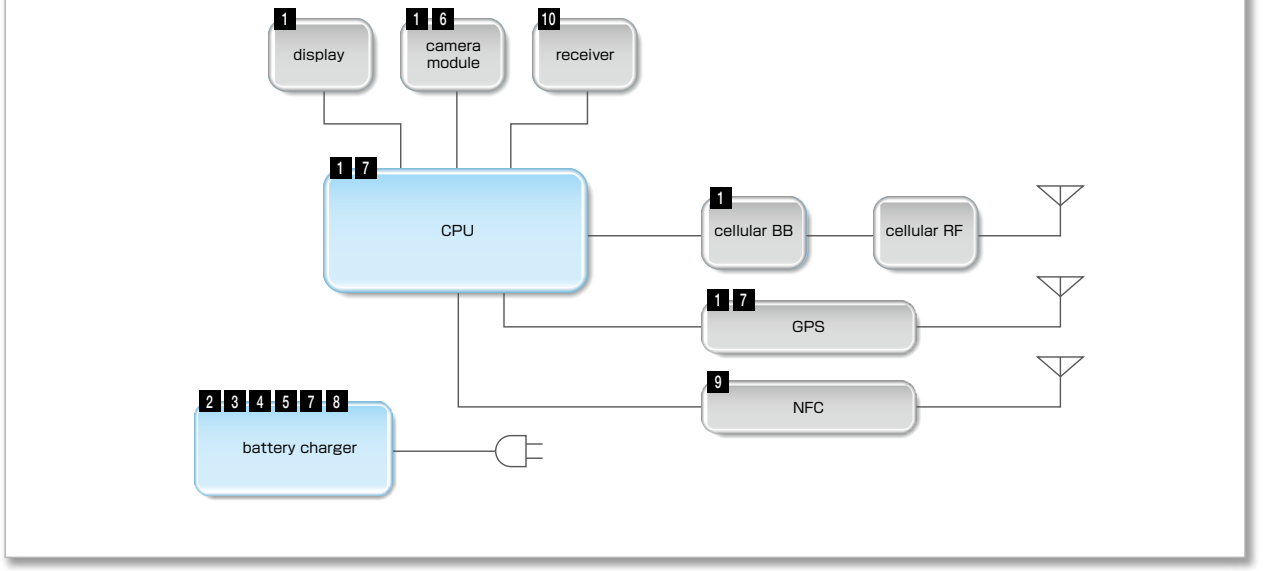
Home information appliances

Smart Phone



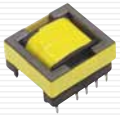
1

FLEX SUPPRESSOR®

2

common-mode choke coil SU coil
SU 7VC Type

3



Transformer

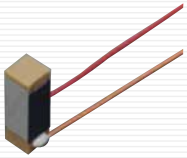
4

SBC coil

5

SBCP-47HY coil

6



Piezoelectric Actuator

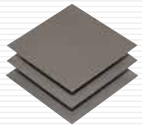
7

conductive polymer type tantalum capacitor
NeoCapacitor

8

DC line filter
SHO series

9



FLEX SUPPRESSOR® for RFID

10

Acoustic Module

⚠
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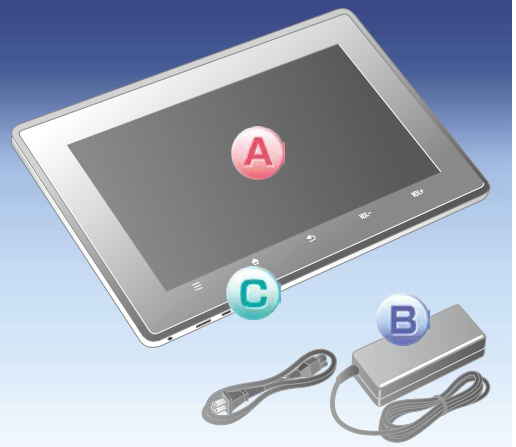
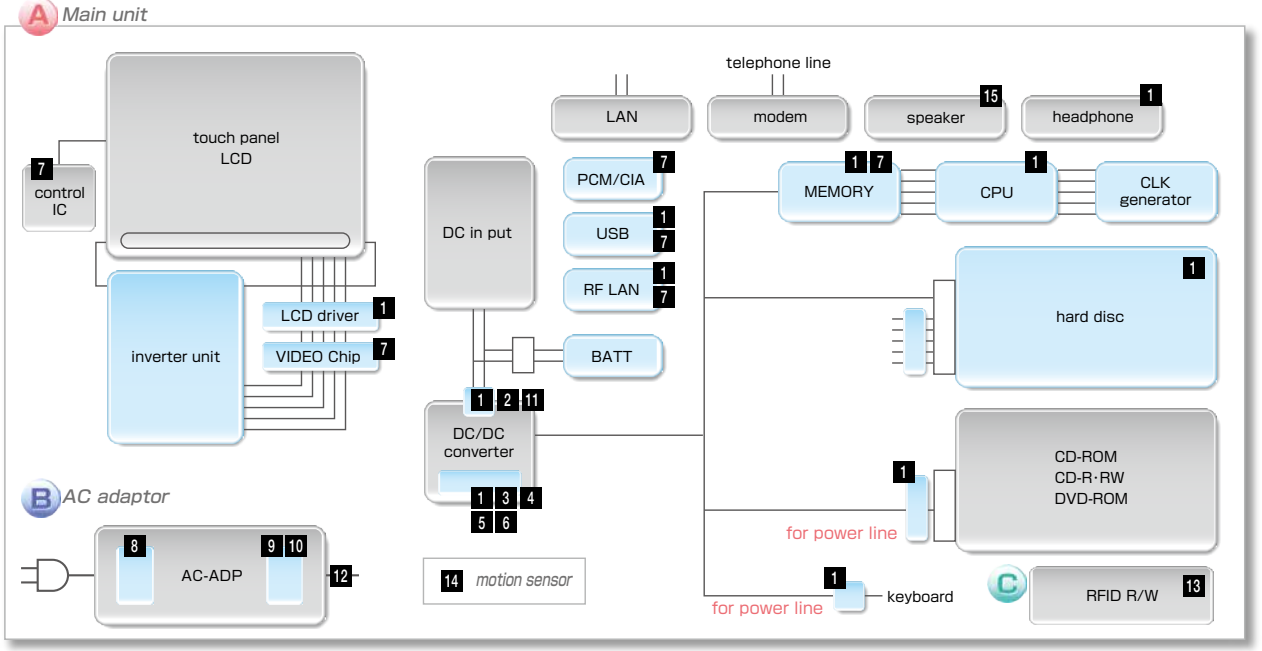
Home information appliances

Tablet PC & Note PC





1 conductive polymer type tantalum capacitor
NeoCapacitor

2 SB coil
SBS9080 series

3 large current power inductor
MPC/MPCG/MPLCG series

4 large current power inductor
C.PI series

5 reedless power inductor
H.DI series

6 reedless power inductor
PLC series

7 **FLEX SUPPRESSOR®**

8 common-mode choke coil
SS,SSR coil

9 **SBC coil**

10 **SBCP coil**

11 **SBP series**

12 EMI core
ESD series

13 **FLEX SUPPRESSOR® for RFID**

14 **Pyroelectric Infrared Sensor**

15 **Acoustic Module**

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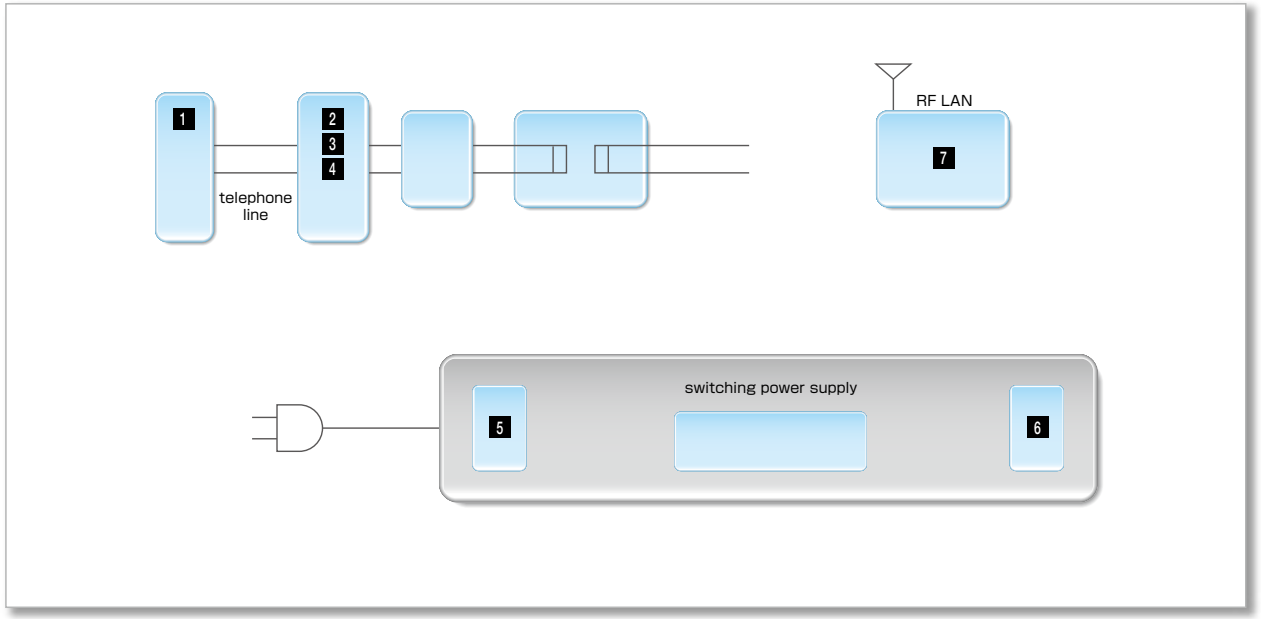
Home information appliances

xDSL Modem



1

EMI core
ESD-SR series

2

EMC chip filter
M-500CT series

3

EMI/EMC filters for telephone sets
ST series

4

EMI core
ESD series

5

common-mode choke coil
SS,SSR coil

6

SBC coil

7

FLEX SUPPRESSOR®

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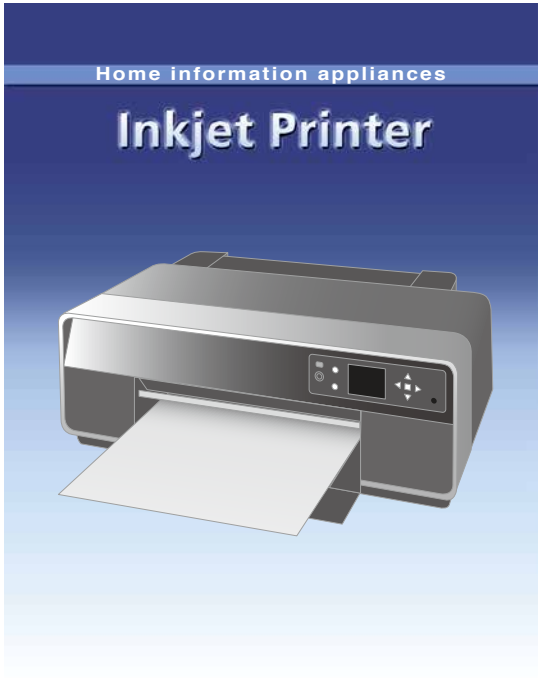
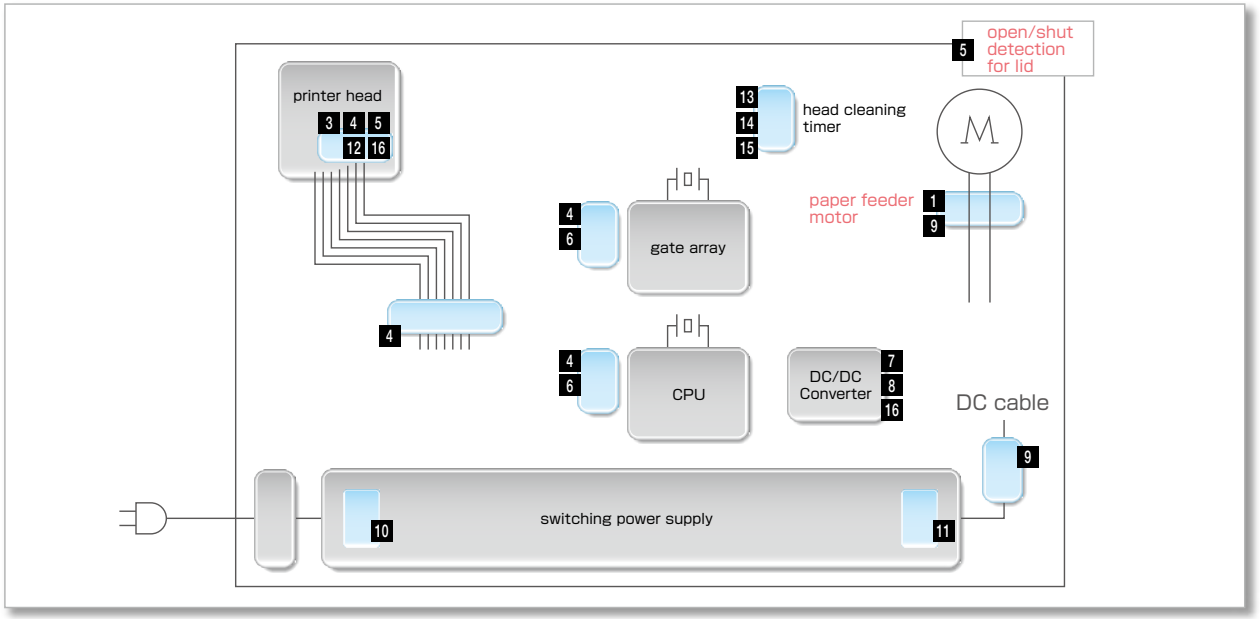
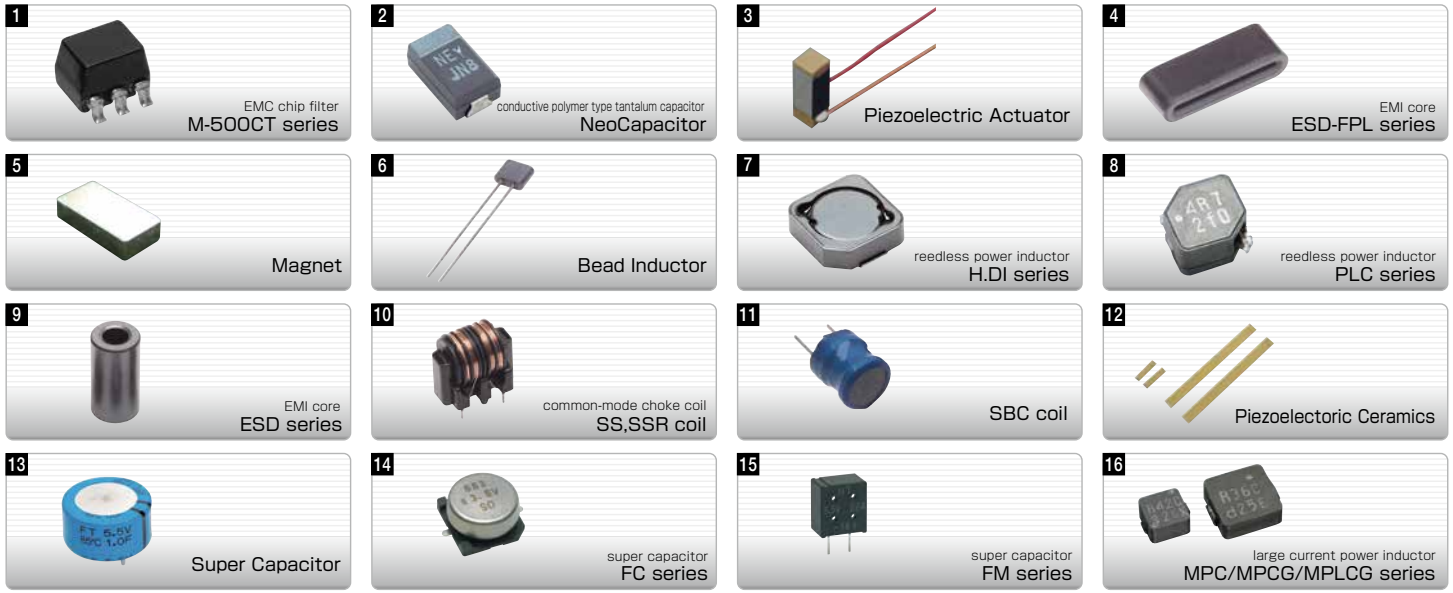
Home information appliances

Inkjet Printer







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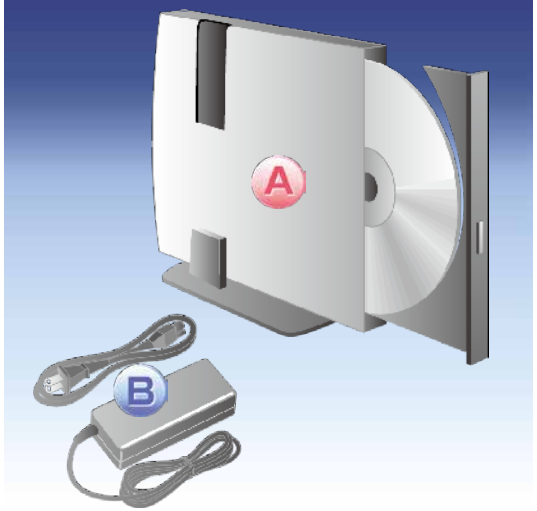
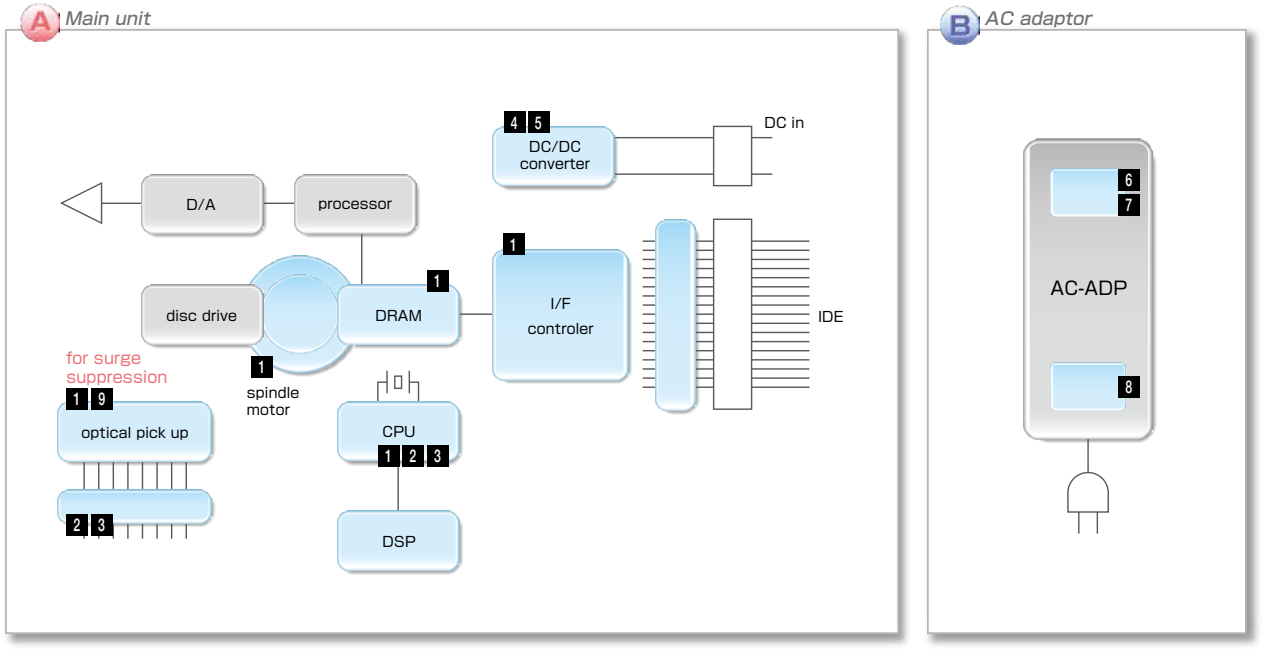
Disc Drive Unit [CD/DVD/BD]





1 A

conductive polymer type tantalum capacitor
NeoCapacitor

2 A

EMI core
ESD-FPL series

3 A

FLEX SUPPRESSOR®

4 A

large current power inductor
MPLCG series

5 A

reedless power inductor
H.DI-0630／H.DI-0520

6 B

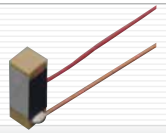
SBC coil

7 B

SBCP coil

8 B

common-mode choke coil
SS,SSR coil

9 A

Piezoelectric Actuator

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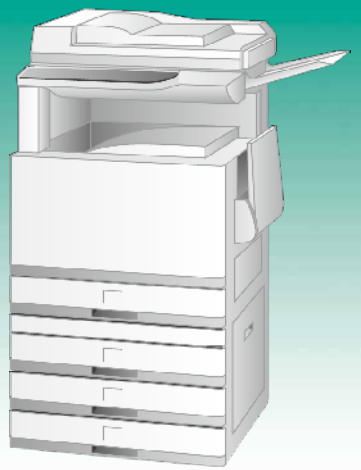
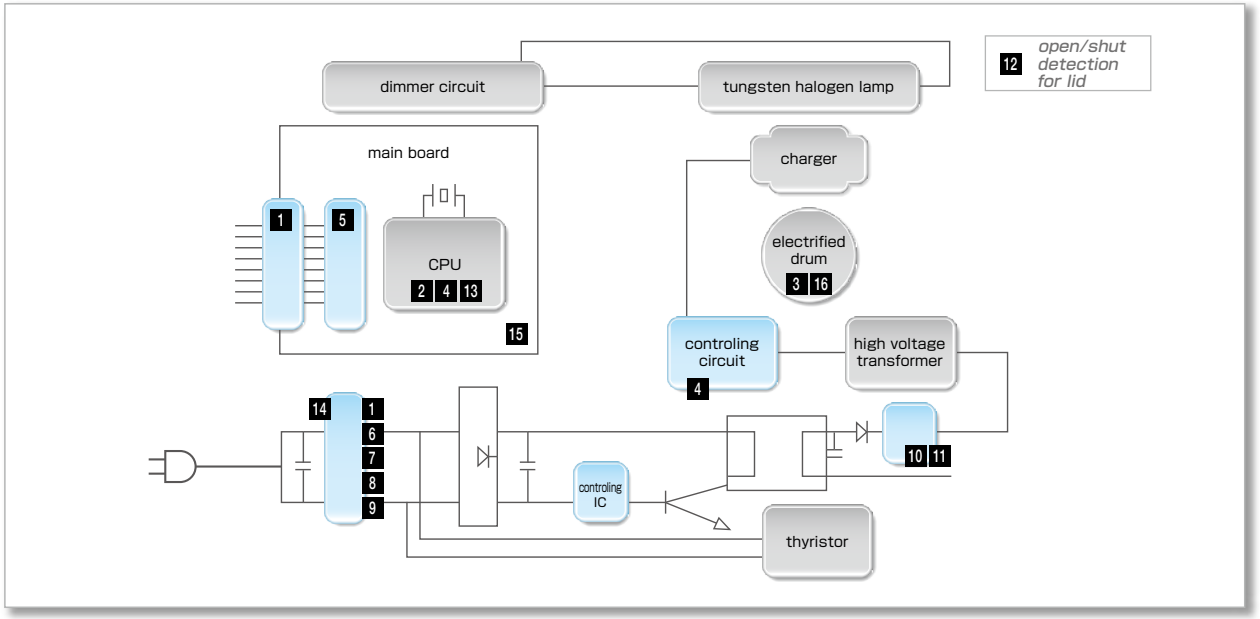
Office automation equipments

Copying Machine





1 EMI core
ESD series

2 conductive polymer type tantalum capacitor
NeoCapacitor

3 super capacitor
HV series

4 magnetic direct current sensor
MDCS

5 Bead Inductor

6 normal-mode choke coil
SN coil

7 normal-mode choke coil
HHB coil

8 common-mode choke coil
SC,SCR coil

9 common-mode choke coil
SS,SSR coil

10 SBC coil

11 OH coil

12 Magnet

13 large current power inductor
MPC/MPCG/MPLCG series

14 noise filter
GT-SF series

15 Pyroelectric Infrared Sensor

16 Thermal Reed Switch

⚠
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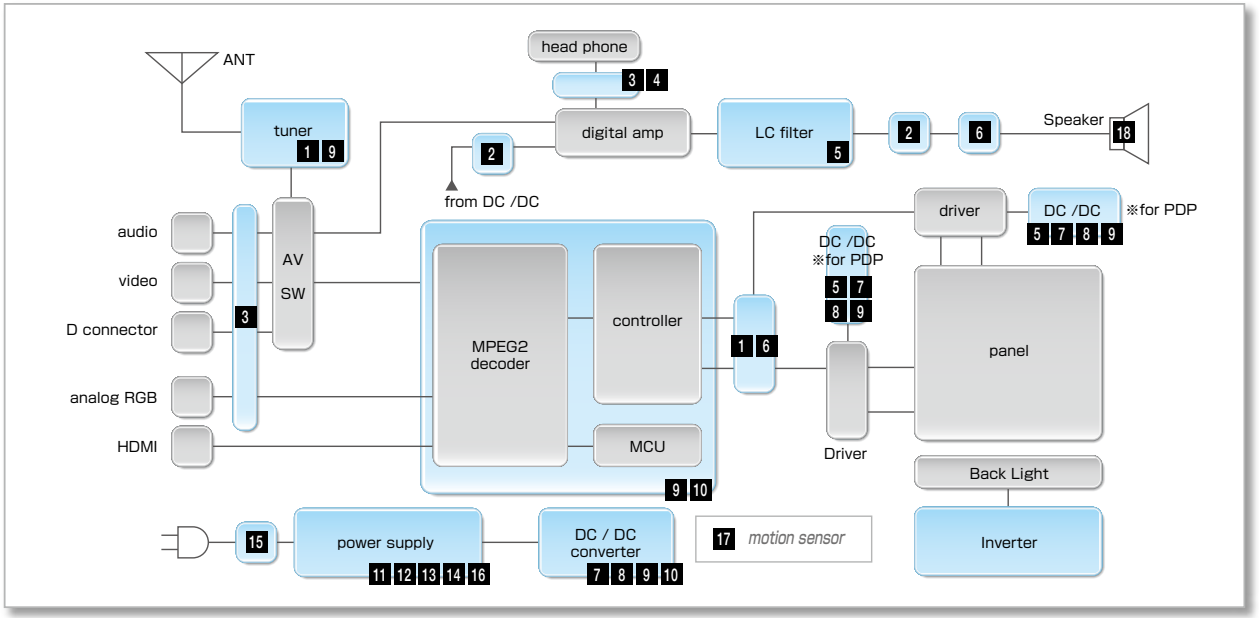
Flat Panel TV



1
FLEX SUPPRESSOR®

2
SB coil
SBS9080 series

3
EMC chip filter
M-500CT series

4
SBT-W

5
SBPSC coil

6
EMI core
ESD series

7
reedless power inductor
PLC series

8
reedless power inductor
H.DI series

9
conductive polymer type tantalum capacitor
NeoCapacitor

10
large current power inductor
MPC/MPCG/MPLCG series

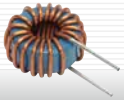
11
common-mode choke coil
SS,SSR coil

12
common-mode choke coil
SC,SCR coil

13
SBC coil

14
Thermal Guard

15
inlet type noise filter
GL-FVP series

16 
OH coil

17
Pyroelectric Infrared Sensor

18
Acoustic Module

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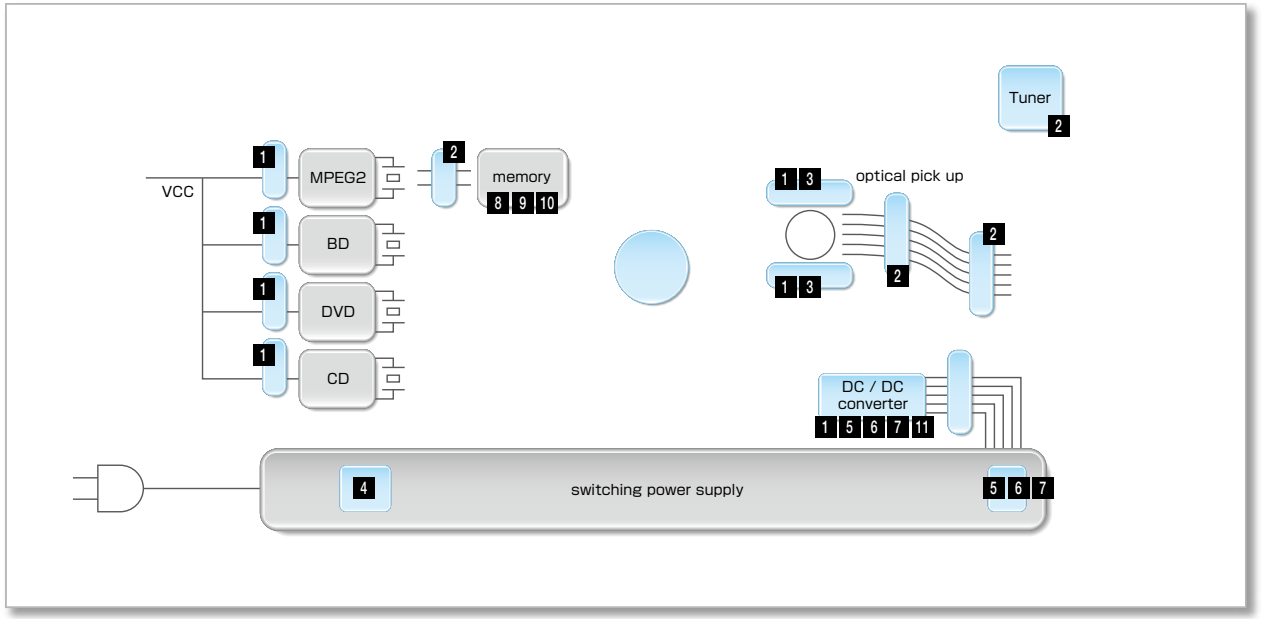
BD / HDD Recorder

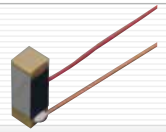


1

conductive polymer type tantalum capacitor
NeoCapacitor

2

FLEX SUPPRESSOR®

3

Piezoelectric Actuator

4

common-mode choke coil
SS,SSR coil

5

SBPSC coil

6

reedless power inductor
H.DI series

7

reedless power inductor
PLC series

8

Super Capacitor

9

super capacitor
FC series

10

super capacitor
FM series

11

large current power inductor
MPC/MPCG/MPLCG series

⚠
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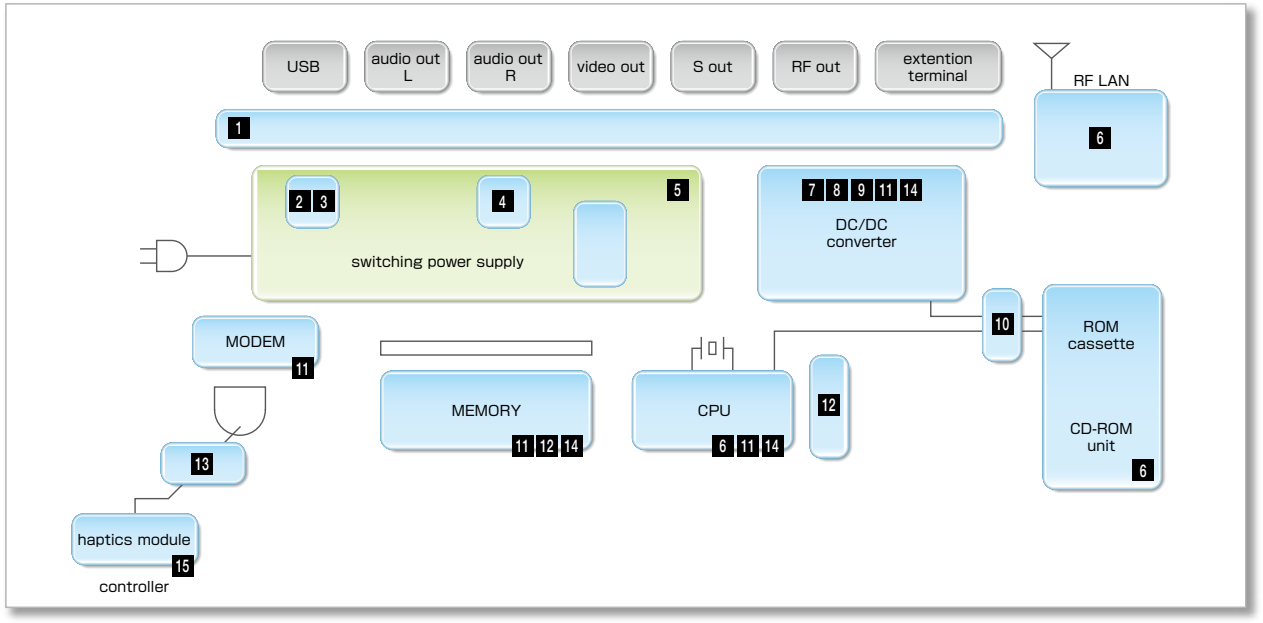
Game Machine

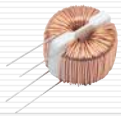


1

EMC chip filter
M-500CT series

2

common-mode choke coil
SS,SSR coil

3

common-mode choke coil
SC,SCR coil

4

Thermal Guard

5

SBC coil

6

FLEX SUPPRESSOR®

7

reedless power inductor
PLC series

8

SB coil
SBS9080 series

9

SB coil
SBT-03W series

10

EMI core
ESD-FPL series

11

conductive polymer type tantalum capacitor
NeoCapacitor

12

Super Capacitor

13

EMI core
ESD series

14

large current power inductor
MPC/MPCG/MPLCG series

15

Piezoelectoric Ceramics

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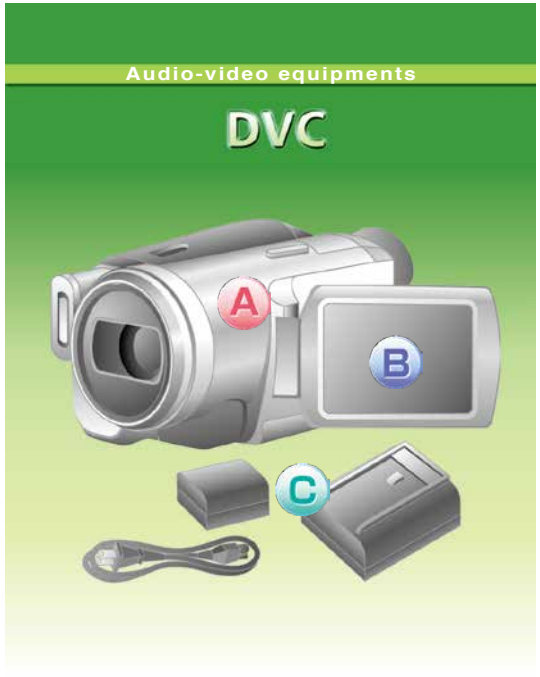
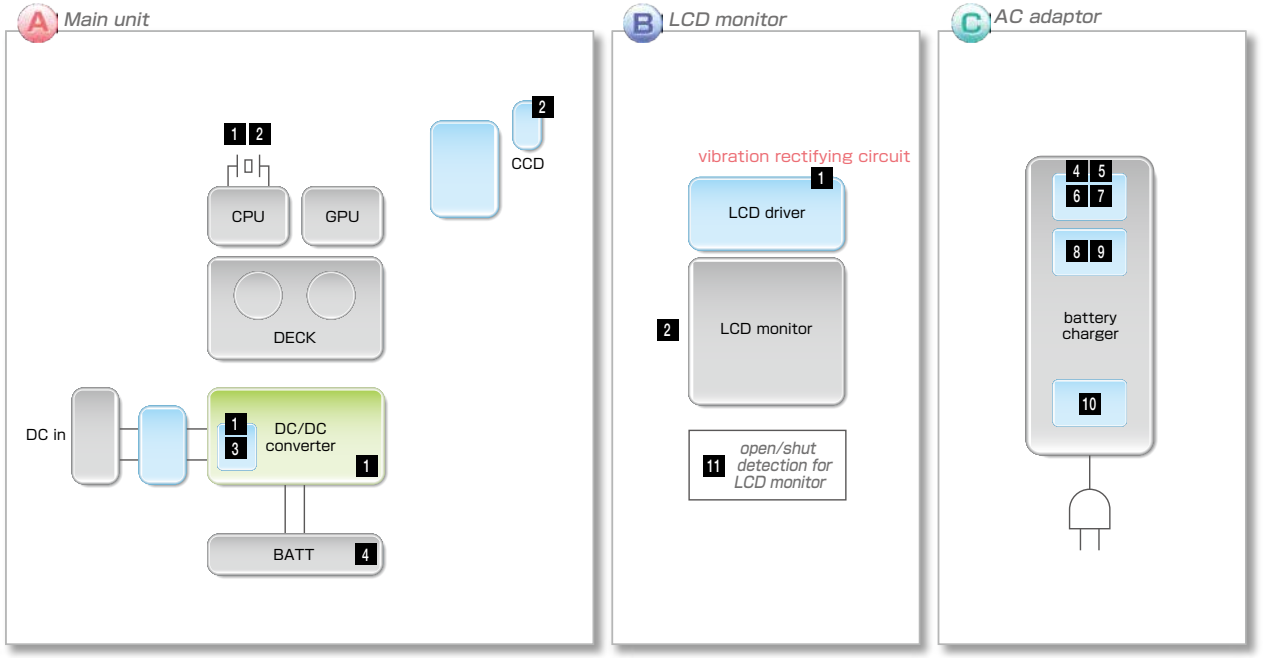
DVC





1 A B
conductive polymer type tantalum capacitor
NeoCapacitor

2 A B
FLEX SUPPRESSOR®

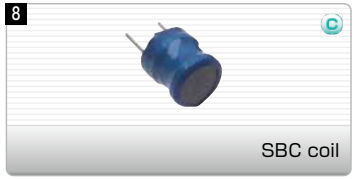
3 A
reedless power inductor
H.DI-0630／H.DI-0520

4 C
SB coil
SBT-03W series

5 C
DC line filter
SH series

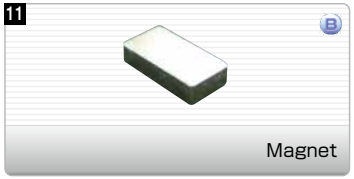
6 C
DC line filter
SHO series

7 C
EMI core
ESD series


8 C
SBC coil

9 C
SBCP coil

10 C
common-mode choke coil
SS,SSR coil


11 B
Magnet

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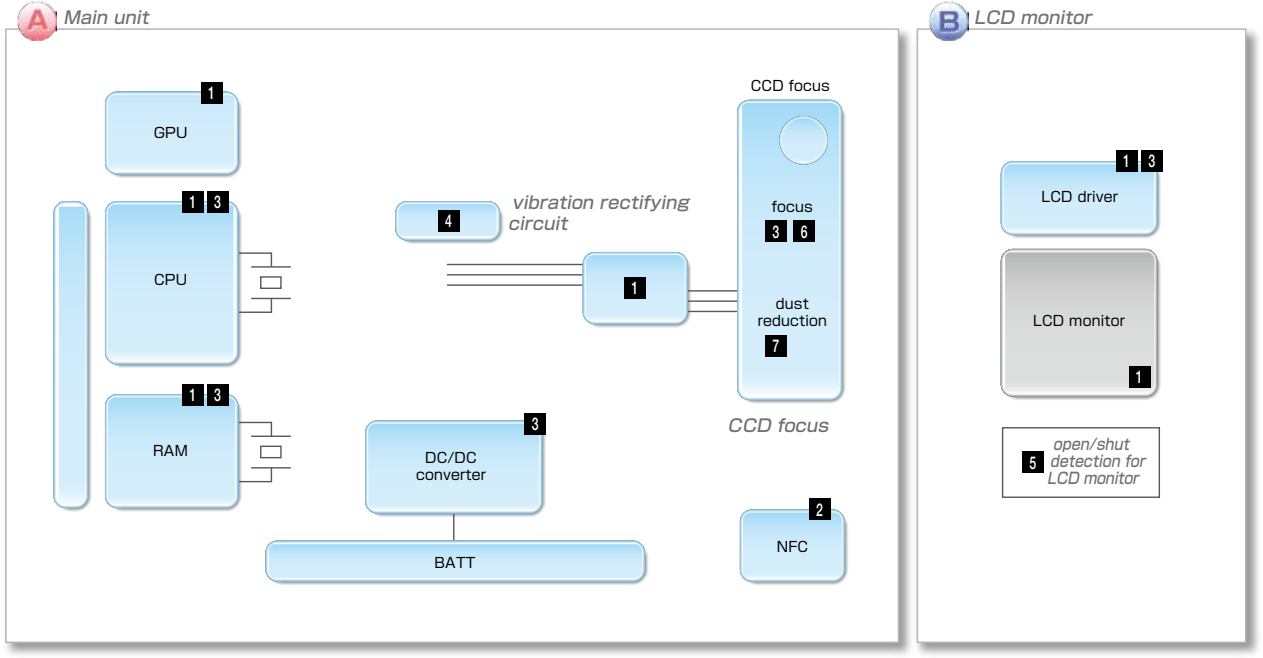
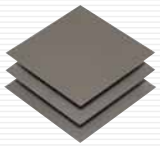
Audio-video equipments

Digital Camera



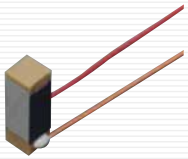
1

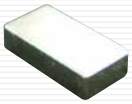
FLEX SUPPRESSOR®

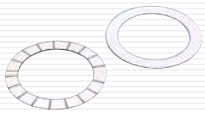
2

FLEX SUPPRESSOR® for RFID

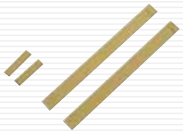
3

conductive polymer type tantalum capacitor
NeoCapacitor

4

Piezoelectric Actuator

5

Magnet

6

Piezoelectric Ceramics
Transducers for Ultrasonic Motor

7

Piezoelectoric Ceramics

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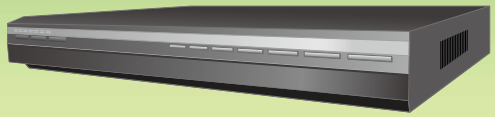
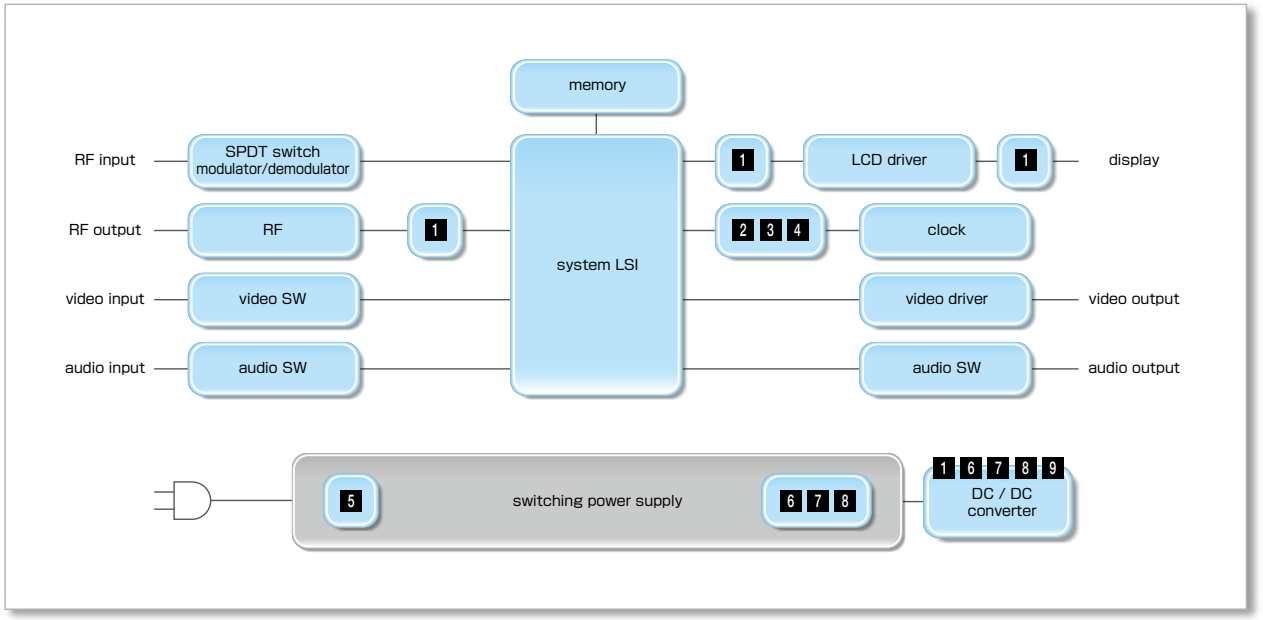
Set-Top Box





1

conductive polymer type tantalum capacitor
NeoCapacitor

2

Super Capacitor

3

super capacitor
FC series

4

super capacitor
FM series

5

common-mode choke coil
SS,SSR coil

6

SBPSC coil

7

reedless power inductor
PLC series

8

reedless power inductor
H.DI series

9

large current power inductor
MPC/MPCG/MPLCG series

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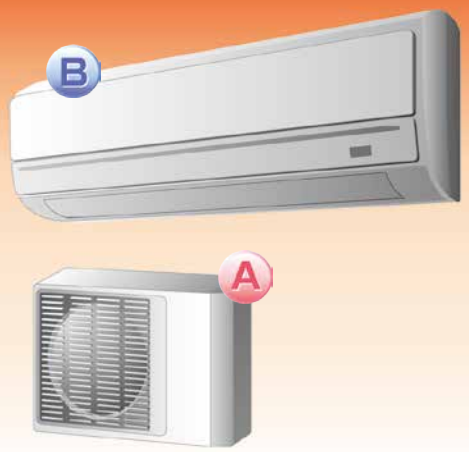
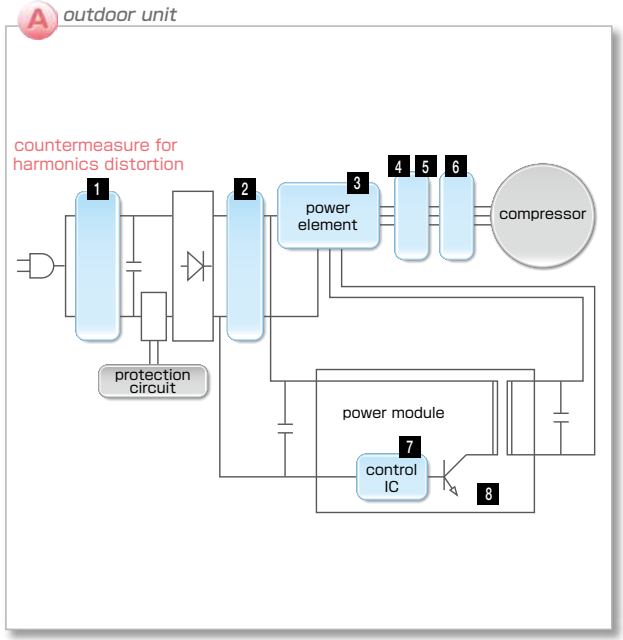
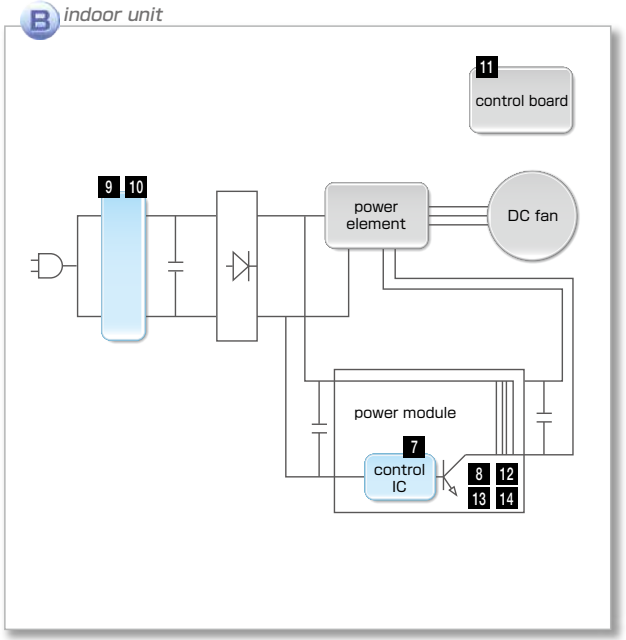
Home electric appliances

Air Conditioner





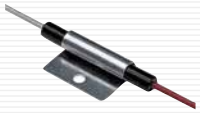


1 A

common-mode choke coil
Large SCR series

2 A

booster coils for active filters
SHB coil

3 A

Thermal Reed Switch

4 A

zero-phase current transformer
ZCT

5 A

magnetic direct current sensor
MDCS

6 A

EMI core
ESD series

7 A B

conductive polymer type tantalum capacitor
NeoCapacitor

8 A B

Thermal Guard

9 B

common-mode choke coil
SU coil

10 B

common-mode choke coil
SS,SSR coil

11 B

Pyroelectric Infrared Sensor

12 B

Super Capacitor

13 B

super capacitor
FC series

14 B

super capacitor
FM series

⚠
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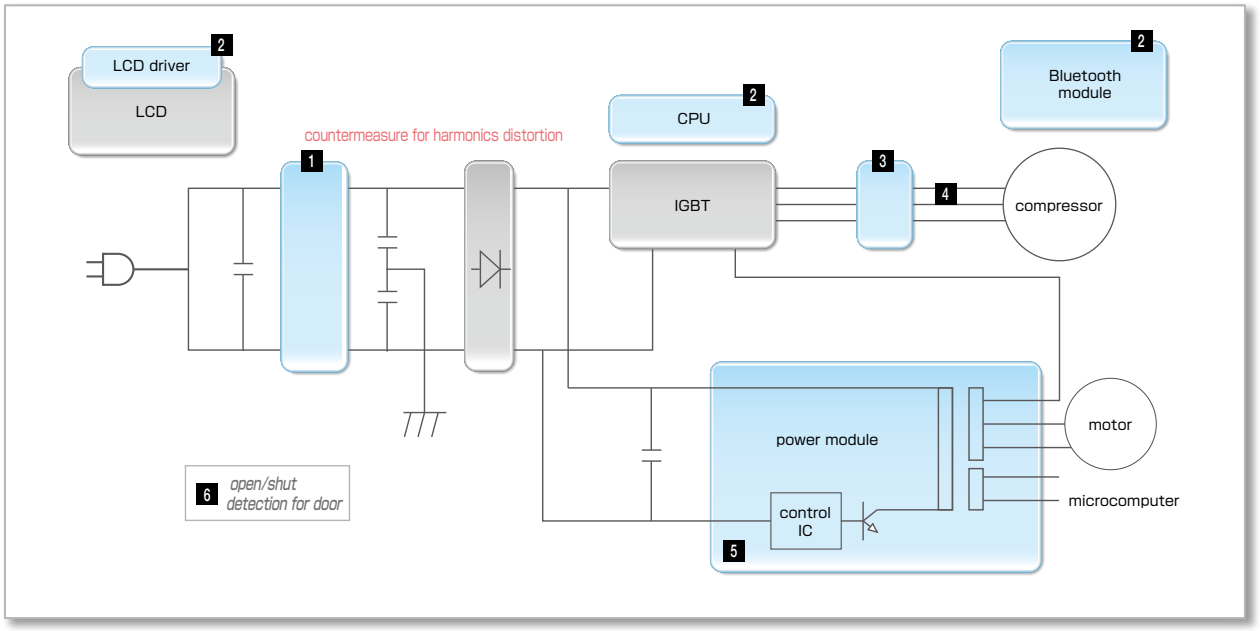
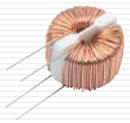
9095TAGVOL14E1703E0

Inverter Refrigerator



1

common-mode choke coil
SC,SCR coil

2

conductive polymer type tantalum capacitor
NeoCapacitor

3

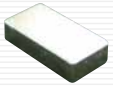
EMI core
ESD series

4

magnetic direct current sensor
MDCS

5

Thermal Guard

6

Magnet

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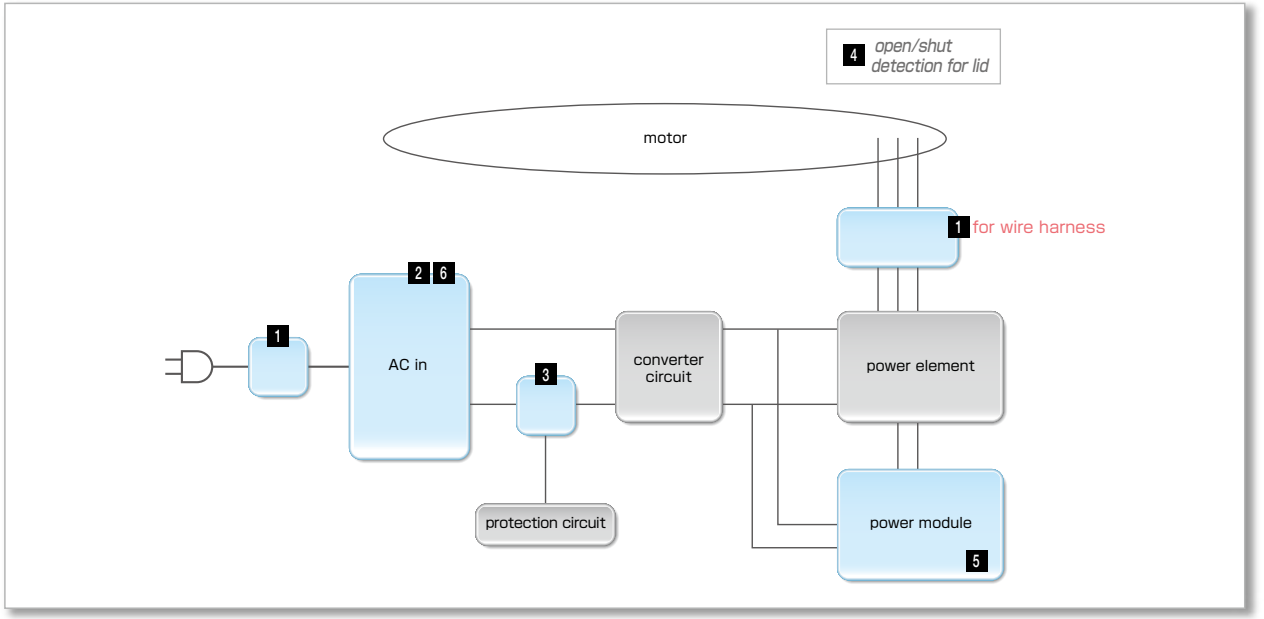
9095TAGVOL14E1703E0

Home electric appliances

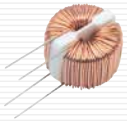
Inverter Laundry Machine



1

EMI core
ESD series

2

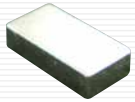


common-mode choke coil
SC,SCR coil

3

zero-phase current transformer
ZCT

4



Magnet

5

Super Capacitor

6

common-mode choke coil
SS,SSR coil

⚠
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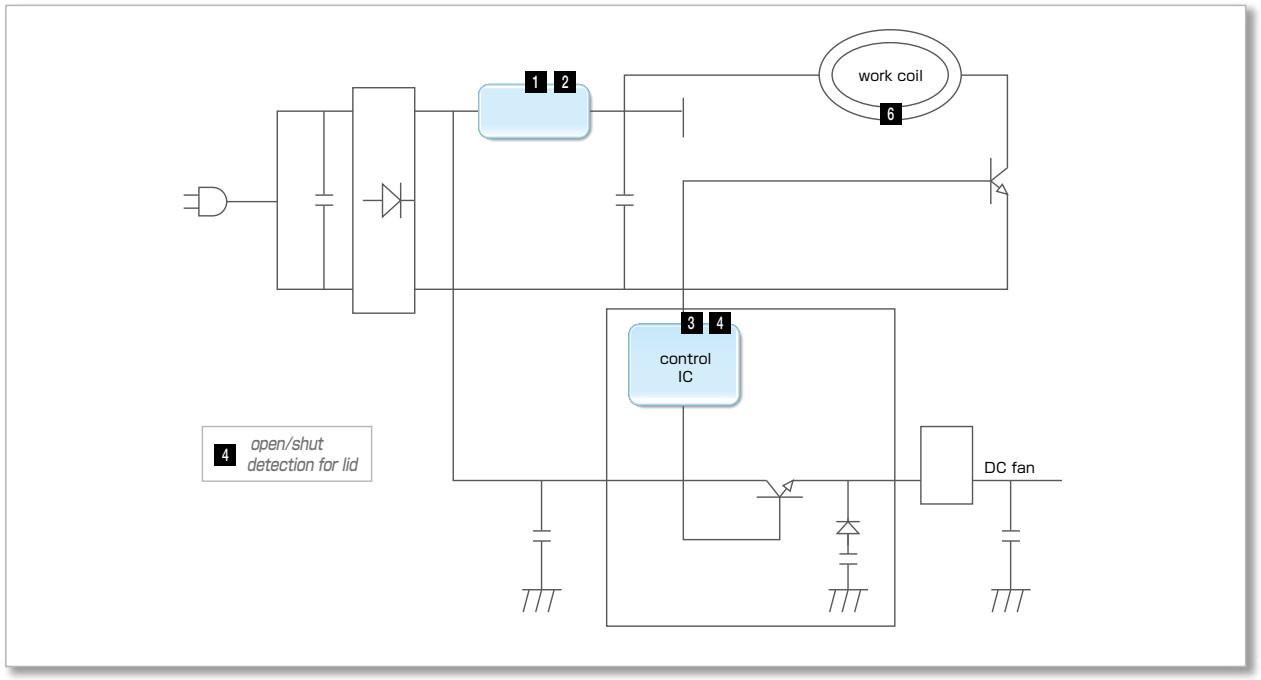
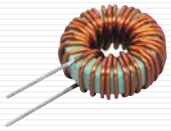
9095TAGVOL14E1703E0

IH Rice Cooker



1

normal-mode choke coil
SN coil

2

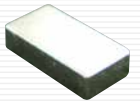
normal-mode choke coil
HHB coil

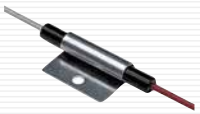
3

Super Capacitor

4

super capacitor
FM series

5

Magnet

6

Thermal Reed Switch

⚠
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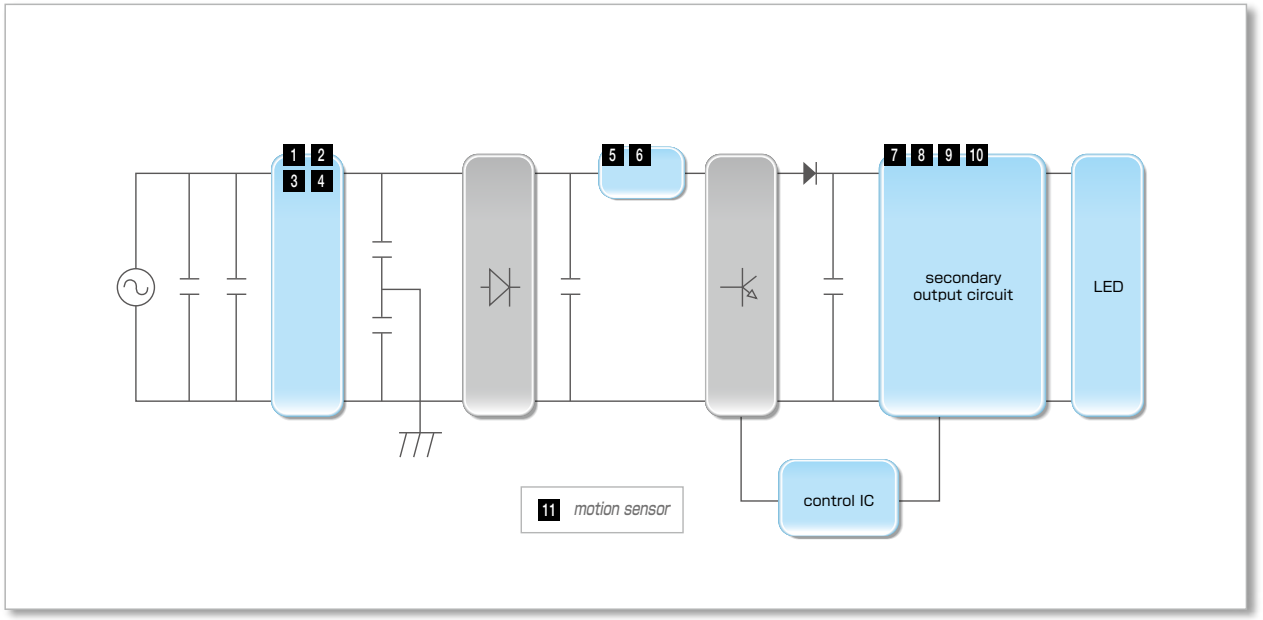
9095TAGVOL14E1703E0

Housing equipments

Fluorescent Light Fittings



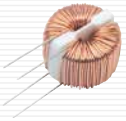
1

common-mode choke coil
SU coil

2

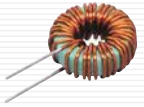
common-mode choke coil
SS,SSR coil

3



common-mode choke coil
SC,SCR coil

4

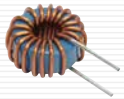


normal-mode choke coil
SN coil

5

booster coils for active filters
SHB coil

6



OH coil

7

DC line filter
SH series

8

DC line filter
SHO series

9

SBC coil

10

EMI core
Beads Core

11

Pyroelectric Infrared Sensor

⚠
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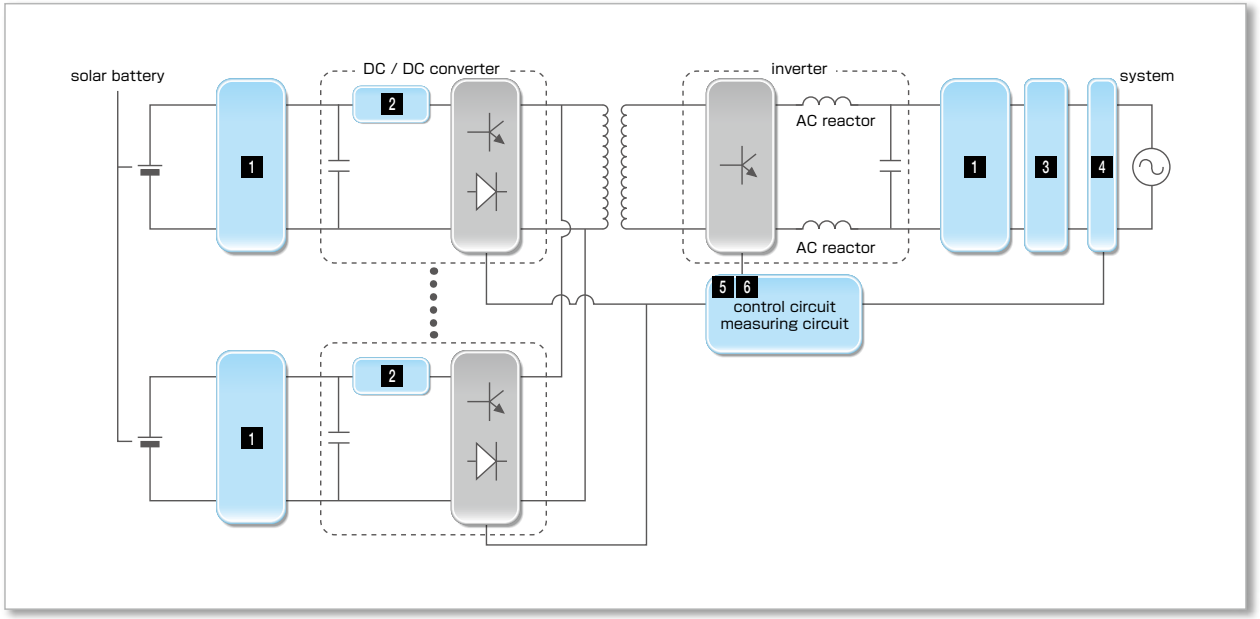
9095TAGVOL14E1703E0

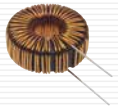
Housing equipments

Power Conditioner



1

common-mode choke coil
SC.SCR coil

2

booster coils for active filters
SHB coil

3

EMI core
ESD series

4

zero-phase current transformer
ZCT

5

common-mode choke coil
SS,SSR coil

6

Thermal Guard

⚠
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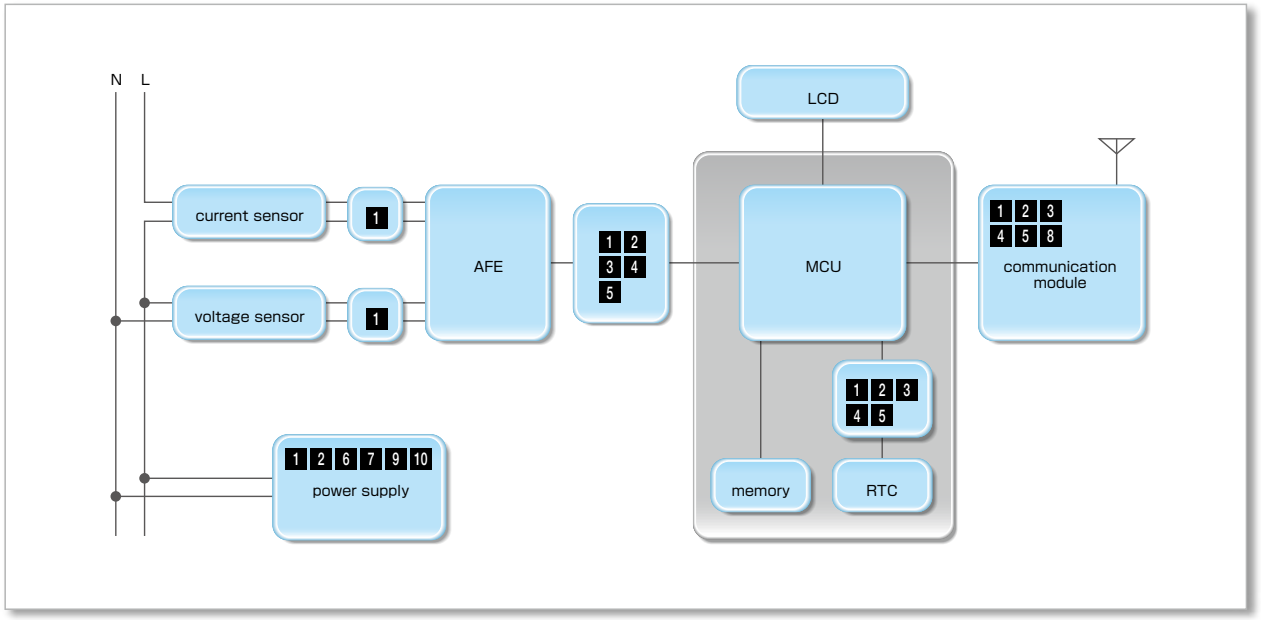
9095TAGVOL14E1703E0

Housing equipments

Smart Meter



1

conductive polymer type tantalum capacitor
NeoCapacitor

2

Super Capacitor

3

super capacitor
FC series

4

super capacitor
FM series

5

super capacitor
HV series

6

SBC coil

7

SBCP coil

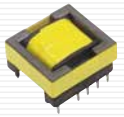
8

FLEX SUPPRESSOR®

9

common-mode choke coil
SS,SSR coil

10



Transformer

⚠
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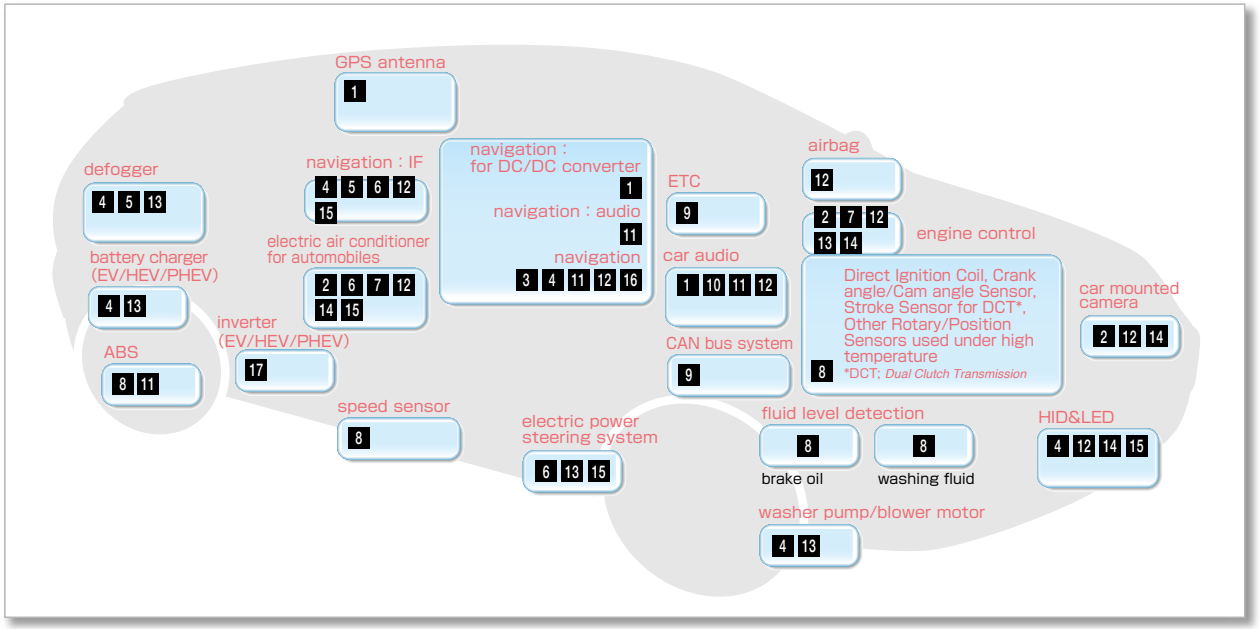
9095TAGVOL14E1703E0

Car electronics equipments

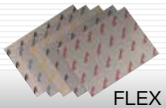
Car Electronics



Car electronics equipments

1
conductive polymer type tantalum capacitor
NeoCapacitor

2
large current power inductor
C.PI series

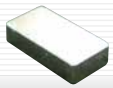
3 
FLEX SUPPRESSOR®

4
(please inquire)
normal-mode choke coil
SN,SRD coil

5
common-mode choke coil
SC,SCR coil

6
EMI core
ESD series

7
Thermal Reed Switch

8 
Magnet

9
EMC chip filter
M-500CT series

10
SBPSC coil

11
Super Capacitor

12
reedless power inductor
DPCV series

13
normal-mode choke coil
HHB coil

14
(under development)
reedless power inductor
MPLCV series

15
EMI core
ESD-SR-HL series

16
Piezoelectoric Ceramics

17
(please inquire)
Reactor

⚠
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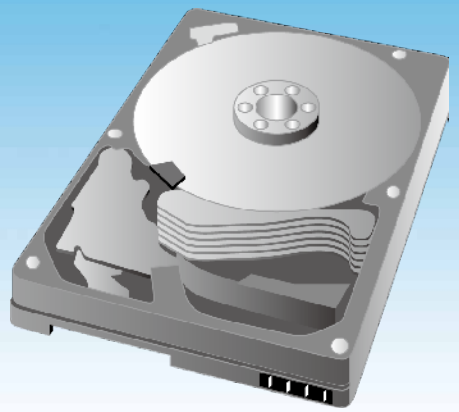
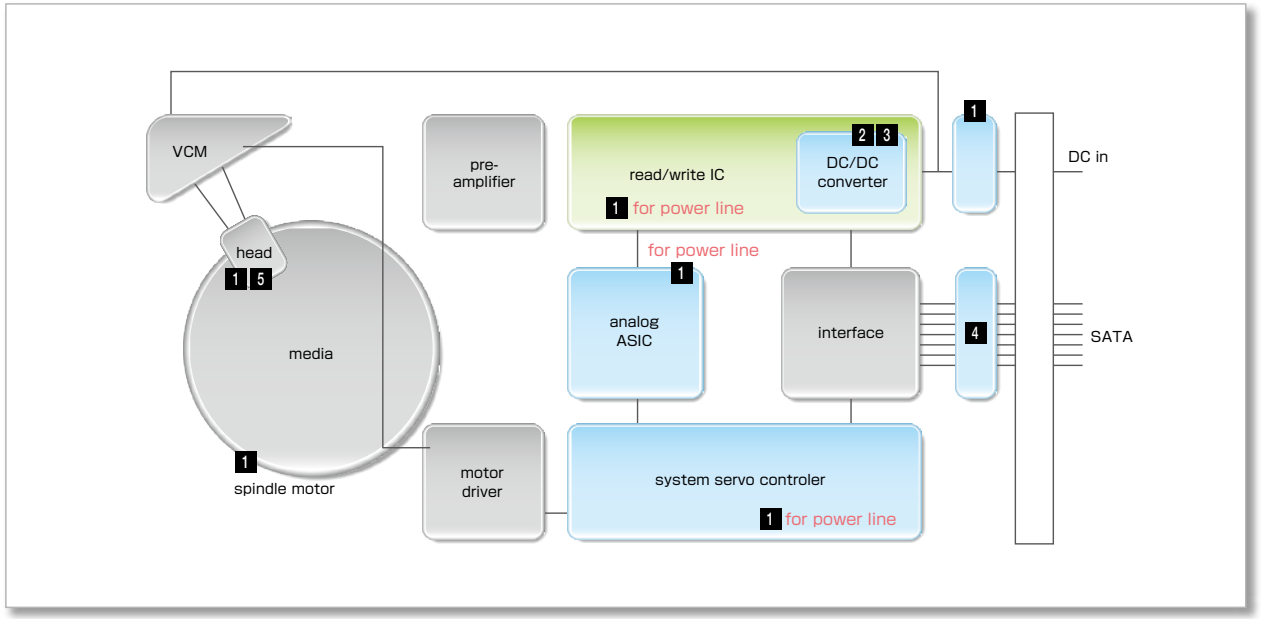
9095TAGVOL14E1703E0

Others

Hard Disc Drive





1

conductive polymer type tantalum capacitor
NeoCapacitor

2

large current power inductor
MPLCG series

3

reedless power inductor
H.DI 0520 series

4

FLEX SUPPRESSOR®

5

Piezoelectoric Ceramics

Others

⚠
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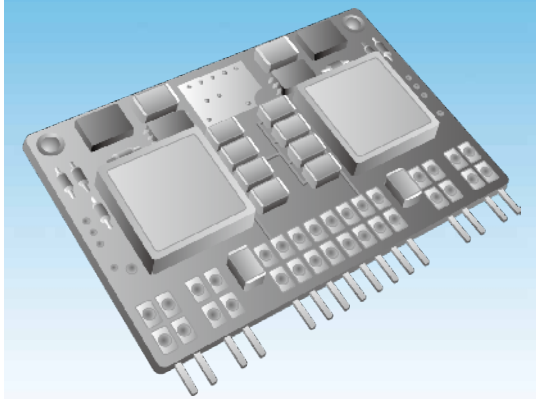
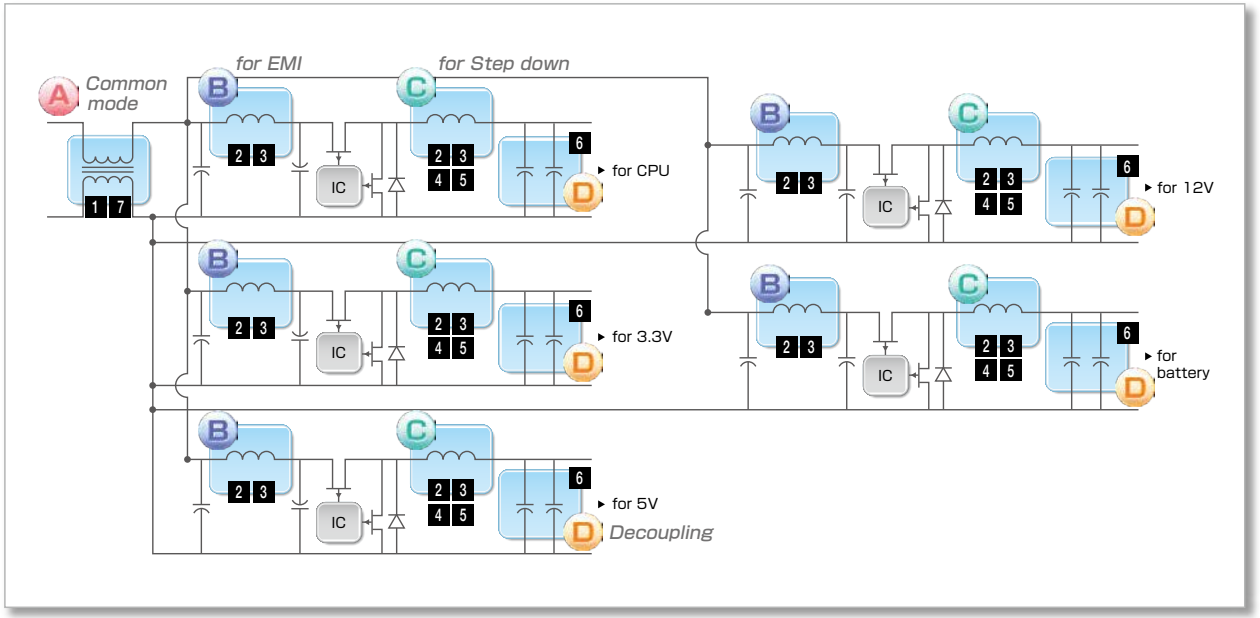
9095TAGVOL14E1703E0

Others

DC / DC Converter





1 SB coil
SBS9080 series

2 reedless power inductor
H.DI series

3 reedless power inductor
PLC series

4 large current power inductor
C.PI series

5 large current power inductor
MPC/MPCG/MPLCG series

6 conductive polymer type tantalum capacitor
NeoCapacitor

7 SBP series

⚠
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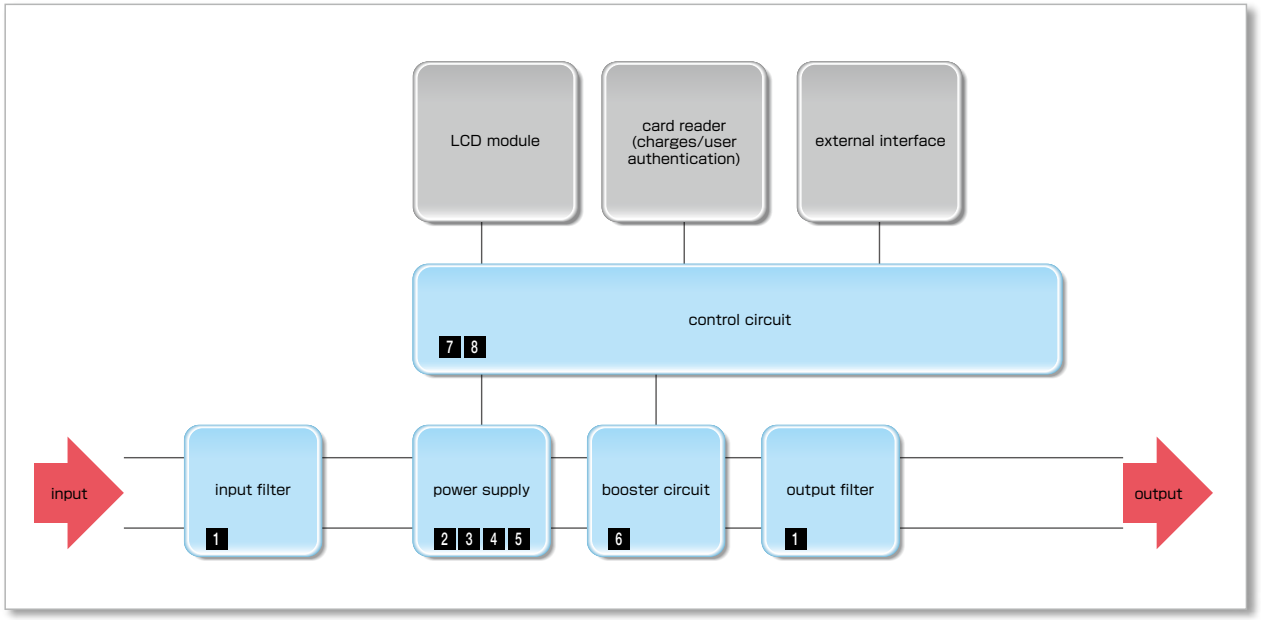
9095TAGVOL14E1703E0

Others

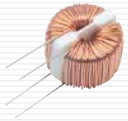
Rapid Charger



1 (please inquire)

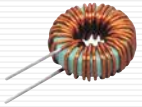
noise filter
LF-NV series

2



common-mode choke coil
SC,SCR coil

3



normal-mode choke coil
SN coil

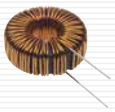
4

EMI core
ESD series

5

EMI core
ESD-SR-HL series

6



booster coils for active filters
SHB coil

7

large current power inductor
C.PI series

8

reedless power inductor
DPCV series

Others

⚠
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9095TAGVOL14E1703E0

Capacitors

conductive polymer type tantalum capacitor
NeoCapacitor

This is the first in the world that has been brought into practical use in high-speed electronic devices. A conductive polymer is used in a cathode, so that excellent noise absorbing capability is provided making it the standard product in the broadband field.

Super Capacitor

Small-size and large-capacity electric double layer capacitors. They are useful as environmentally friendly, simple backup power supplies for communications-related devices in addition to OA and AV devices.

super capacitor
FC series

Electric double layer capacitors that enable reflow surface mounting. Operable at temperature 85° C. They are suitable for back-up of real-time clock or memories.

super capacitor
FM series

Mold type electric double layer capacitors that enable automatic mounting. They are usable as environmentally friendly simple backup power supplies for OA and AV devices.

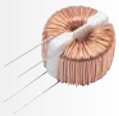
super capacitor
HV series

Small-size and large-capacity electric double layer capacitors that enable charging and discharging with large current.

EMC & Noise Countermeasure / Inductors

↘ AC line filters

common-mode choke coil
SC,SCR coil



AC line filters suitable for suppression of conduction noise in power supply lines and also usable for DC power supply lines.

common-mode choke coil
Large SCR series

Made with new ferrite material, they provide high inductance and high impedance for large electrical currents unsupported by conventional products.

common-mode choke coil
SU coil

Small-size and large-inductance line filters with excellent noise attenuation characteristics, particularly in a low frequency band. They are usable both for AC and DC.

common-mode choke coil SU coil
SU 7VC Type

Small-size and large-inductance line filters with excellent noise attenuation characteristics, particularly in a low frequency band. They are usable both for AC and DC.

common-mode choke coil
SS,SSR coil

Small size yet large inductance is achieved by using a closed magnetic circuit ferrite core. Noise is effectively suppressed over a wide band.

normal-mode choke coil
HHB coil

A newly developed material achieves a reduction in size by 60% as compared with our conventional SN coils. They are suitable for suppression of normal-mode noise in thin and compact power supplies and adaptors, etc.

normal-mode choke coil
SN coil

Normal-mode choke coils with excellent substrate mounting capability and resistance to vibration. They are suitable for noiseprevention in switching power supplies.

booster coils for active filters
SHB coil

Suitable for booster coils of active filters.

normal-mode choke coil
SRD coil

Normal mode choke coils supporting large currents with its flat winding.

(please inquire)

↘ DC line filters

DC line filter
SH series

Noise filters for DC lines having excellent mounting capability by using a small-size and high-performance ferrite core.

DC line filter
SHO series

Simple common-mode general purpose choke coils.

SB coil
SBT-03W series

Common-mode choke coils with a high-performance ferrite toroidal core. They are suitable for suppression of noise in DC power supply lines.

SBT-W

Common-mode choke coils with a high-performance ferrite toroidal core. They are suitable for suppression of noise in DC power supply lines.

EMI/EMC filters for telephone sets
ST series

Simple noise filters for telephones.

PRODUCT LIST

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9095TAGVOL14E1703E0

Bead Inductor

Axial and radial data line filters capable of automatic insertion. They are suitable for measures against noise and malfunction.

SB coil
SBS9080 series

Surface-mount type choke coils for power lines that are useful for wide applications.

SBP series

Surface-mount type choke coils for power lines that are useful for wide applications.

EMC chip filter
M-500CT series

Surface-mount type common-mode choke coils for signal lines.

Power inductors

large current power inductor
MPC/MPCG/MPLCG series

By adopting metal dust powder core and mold structure, these power inductors are optimized to high-speed and large-current switching power supply circuits.

large current power inductor
MPLCG series

These compact, low profile power inductors feature a molded design that uses metal dust powder.

large current power inductor
C.PI series

Large-current power inductors with an upper portion made of a sendust core and a lower portion made of a Ni-Zn ferrite core.

reedless power inductor
PLC series

A magnetically shielded core with a combination of MnZn and NiZn used, which provides a structure having a less leakage flux.

reedless power inductor
DPCV series

These power inductors of high reliability are designed for use in vehicle mounted devices.
Operating temperature range: -40℃ to +150℃

reedless power inductor
H.DI series

Small-size and low-profile SMD power inductors with excellent DC bias characteristics. They are suitable for DC/DC converters of digital AV and mobile devices, etc.

reedless power inductor
H.DI 0520 series

Small-size and low-profile SMD power inductors with excellent DC bias characteristics. They are suitable for DC/DC converters of digital AV and mobile devices, etc.

reedless power inductor
H.DI-0630／H.DI-0520

Small-size and low-profile SMD power inductors with excellent DC bias characteristics. They are suitable for DC/DC converters of digital AV and mobile devices, etc.

OH coil

Simple smoothing power inductors for secondary power supplies.

SBC coil

A large variety of power supply power inductors that are useful in various fields and are suitable for DC/DC converters and noise filters.

SBCP coil

Power supply power inductors that are useful in various fields and are suitable for DC/DC converters and noise filters.

SBCP-47HY coil

Power supply power inductors that are useful in various fields and are suitable for DC/DC converters and noise filters.

SBPSC coil

Power supply power inductors with less leakage flux due to the closed magnetic circuit structure. They are also suitable for digital amplifiers due to low distortion.

reedless power inductor
MPLCV series

These power inductors of high reliability are designed for use in vehicle mounted devices. Operating temperature range is -40℃ to +150℃.

(under development)

Reactor

This highly flexible reactor for use in vehicles features unique TOKIN technologies.

(please inquire)

EMI Core

EMI Core
ESD series

Basic line filters capable of significantly reducing noise by winding a line between devices through a core.

EMI Core
ESD-FPL series

An enhanced product line of EMI cores suitable for flexible flat cables to interface cables. Less influence on signals, and easy to take measures against noise.

EMI Core
ESD-SR series

Because this one is a split-type, it can be easily fitted to a completed product afterward to add noise reduction feature that has minimum impact on communication signals.

EMI Core
ESD-SR-HL series

This EMI core has the same properties ESD-SR series, but it can be used under higher temperature conditions and easily fixed to a cable or a chassis with its holding mechanism.

EMI Core
Beads Core

This noise filter makes it relatively easy to eliminate noise, with few side effects such as signal rounding or abnormal oscillation.
By making a filter circuit combined with a condenser, an even higher level of noise elimination is provided.

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Noise filters

inlet type noise filter
GL-FVP series

Because the input/output of the power supply is completely shielded by its housing, the high frequency characteristics are particularly excellent, and not only conduction noise (FCC, VDE, etc.) but also emission noise are effectively suppressed.

noise filter
GT-SF series

These single-phase noise filters are enclosed in a compact, lightweight plastic housing. The resin filling conventionally used to secure internal components has been eliminated to reduce weight. The fact that they do not contain resin filling also makes them environmentally friendly, recyclable products.

noise filter
LF-NV series

Using unique TOKIN technologies, this compact, lightweight noise filter is able to support large currents (up to 200A) and is compliant to safety standards.

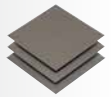
(please inquire)

FLEX SUPPRESSOR®

FLEX SUPPRESSOR®

This product is a sheet type noise suppressor effectively suppressing emission noise generated from electronic devices. It is possible to countermesure wide-band, high-frequency noise that has not been successfully eliminated with conventional ferrite and ceramic parts.

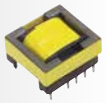
FLEX SUPPRESSOR® for RFID



Micron-order metallic magnetic powder is dispersed and blended into resin to form a compound magnetic sheet. This sheet-form product effectively improves communication failure induced by nearby metals in the 13.56 MHz band RFID R/W system.

Transformers

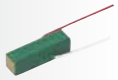
Transformer



A product line of various transformers suitable for various applications, such as small-size types with less heat effect and emission noise to peripheral parts, owing to our unique material technology.

Piezoelectric Device

Piezoelectric Actuator



Ceramic elements for converting electric energy into mechanical energy such as displacement or force by utilizing the piezoelectric longitudinal effect. In recent years, they have spread in the mobile telephone and DSC fields.

Piezoelectoric Ceramics

This ceramic element uses piezoelectric and inverse piezoelectric effects to generate electrical energy when force is applied, and to convert applied electrical energy into displacement and mechanical energy. It is used in consumer, medical, and industrial products as a sensor, ultrasonic vibrator, and actuator.

Piezoelectric Ceramics
Transducers for Ultrasonic Motor

These applied ceramic element products are attached to ring-shaped vibrators, inducing flexural vibration to produce travelling waves that drive movable components. They offer high torque and responsiveness, as well as holding torque when stopped. Applications include autofocus in DSCs.

Sensors

Thermal Reed Switch

Any operating temperature of -10℃ to +130℃ is available by a highly-reliable, high-precision temperature switch. Applicable to various applications.

Thermal Guard

Compact, lightweight, and versatile, this temperature sensor offers high-speed response. It is also high resistant to environmental effects, making it optimal for use in overheating monitoring sensors.

magnetic direct current sensor
MDCS

Magnetic current detection sensors including magnetic material and Hall element that enable detection of any currents (DC, AC, pulse current). Output voltage is proportional to measured current.

zero-phase current transformer
ZCT

Small-size, mold-type, zero-phase current transformer suitable for increasing of the sensitivity and reduction of the size and weight of a ground fault interrupter for prevention of electric shock.

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Sensor Module

Pyroelectric Infrared Sensor

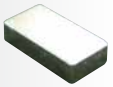
The piezoelectric ceramic of this pyroelectric infrared sensor absorbs the infrared radiation given off by the human body, etc., creating an electrical charge in response to changes in temperature produced (the pyro effect). It can detect peoples' movements, contributing to security and energy savings.

Acoustic Module

This acoustic module uses a piezoelectric oscillator, and is used in various portable devices.

Electronic Materials

Magnet



A product line including "Lanthanet ® " Samarium-Cobalt magnets featuring high energy products and thermal resistance capabilities, and Iron-Chromium-Cobalt magnets (FeCrCo magnets) that can be shaped into ultra-thin sheets or ultra-fine lines.

Medical Materials

Memoalloy

Ti-Ni alloy provides superelastic and shape-memory effects. It is perfect for wires used in medical applications, such as guide wires, stent graft wires, and frames of glasses, etc.

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- The names of the products and the specifications in this catalog are subject to change without notice for the sake of improvement. The manufacturer also reserves the right to discontinue any of these products. At the time of delivery, please ask for specifications sheets to check the contents in order to use the products properly and safely.
- Descriptions in this catalog regarding product characteristics and quality are based solely on discrete components. When using these components, be sure to check the specifications with the component in question mounted on the products.
- The manufacturer's warranty will not cover any disadvantage or damage caused by improper use of the products that deviates from the characteristics, specifications, or conditions for use described in this catalog.
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