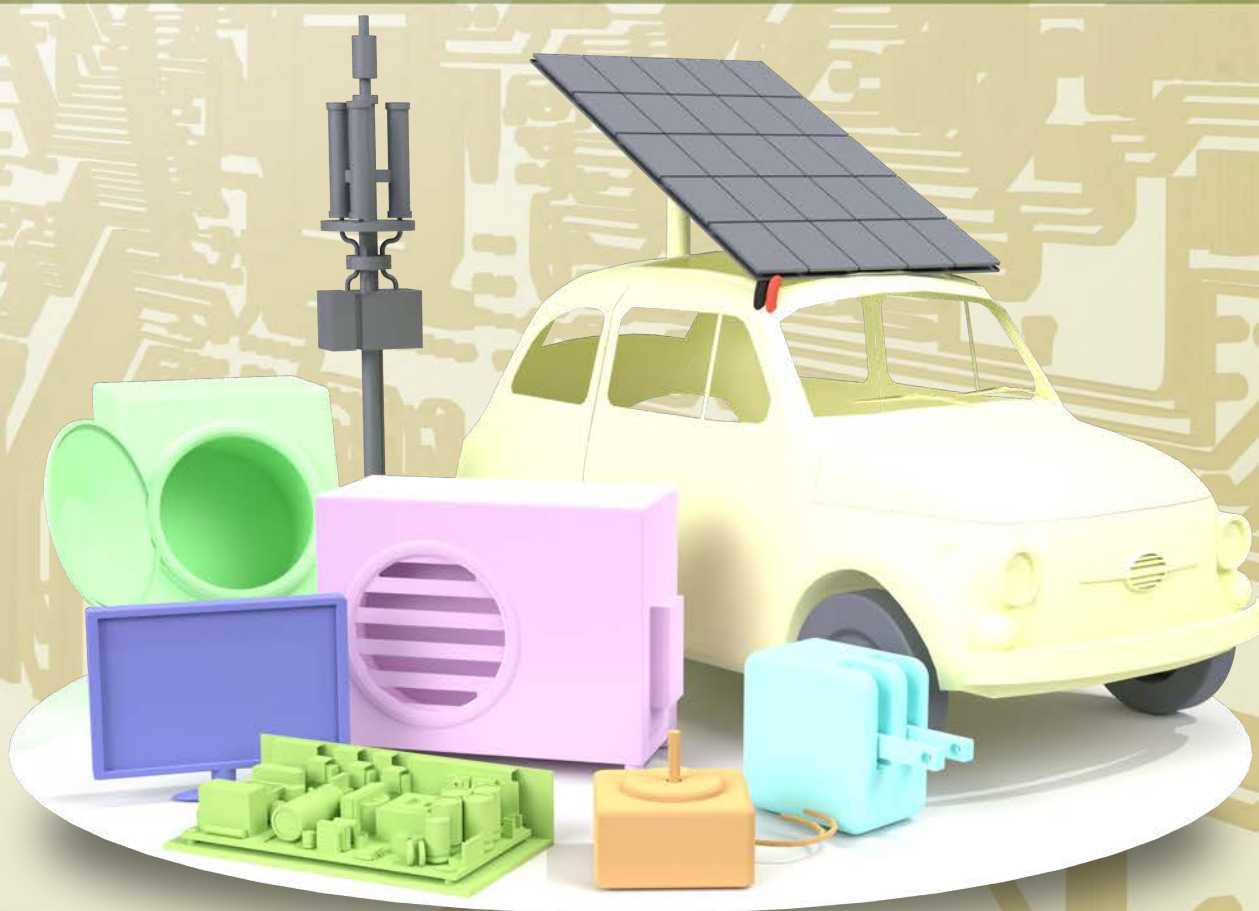


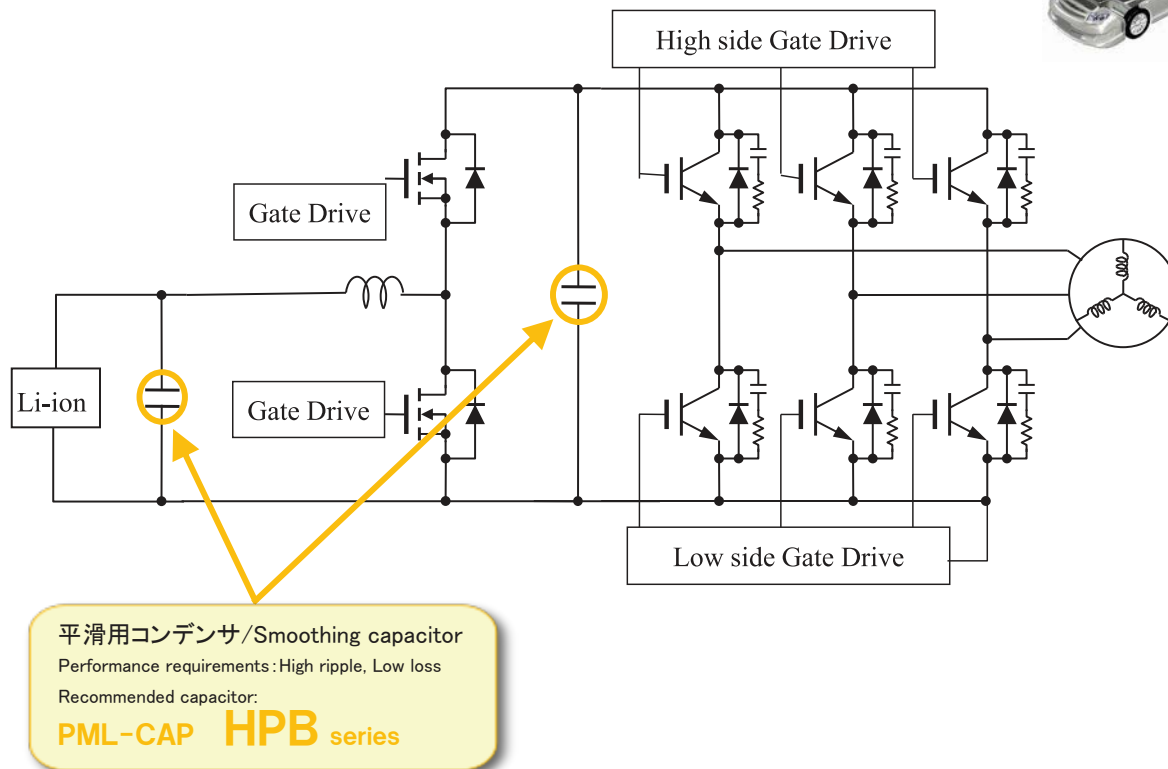
Application Guide

RECOMMENDED PRODUCTS PER APPLICATION



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(1) インバータ回路 (走行用) For Inverter Circuit



For Inverter Circuit

Polymer Multilayer Capacitors

高温度, 優れた温特, 85℃85%RH対応品

HPB series (PMLCAP)

Temp.Range: -55~+125℃

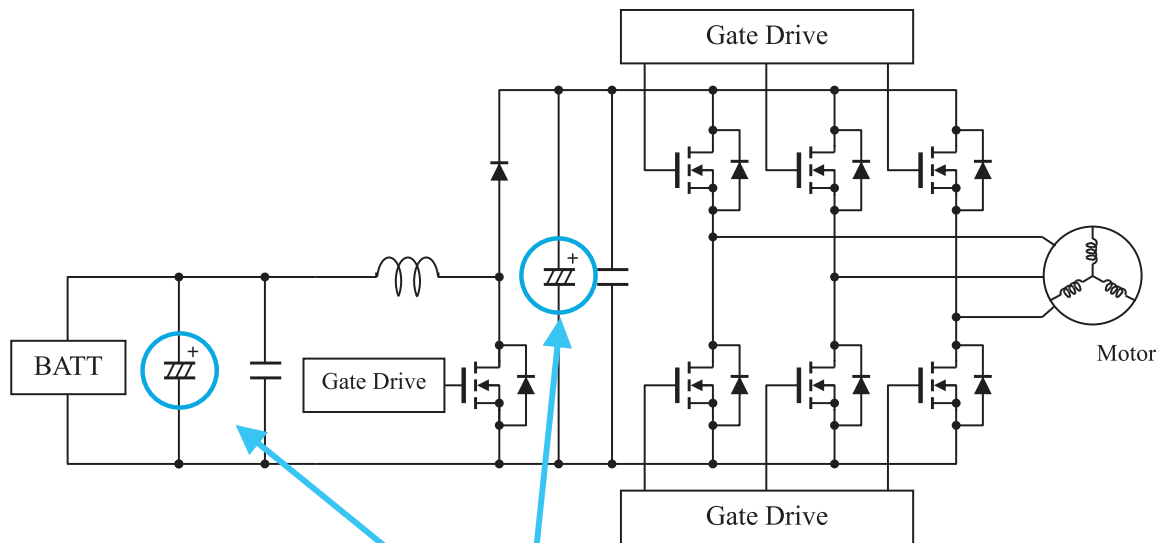
Volt.Range: 500,900Vdc

Cap.Range: 10~25μF

Humidity : 85℃85%RH 1000hours



(2) 低圧インバータ回路 For Inverter Circuit (LowVoltage.)



平滑用コンデンサ/Smoothing capacitor

Performance requirements: Low ESR, High capacitance, High temp.

Recommended capacitor:

Aluminum Capacitors

Conductive Polymer Hybrid Type

HRX・HGX series
PZF・PZH series



For Inverter Circuit (LowVoltage.)

Aluminum Capacitors

小形, 高リップル, 125℃3,000h保証品

HRX series

Volt./Cap.Range: 25~70Vdc/240~5,100 μ F



Aluminum Capacitors

小形, 高リップル, 135℃3,000h保証品

HGX series

Volt./Cap.Range: 25~80Vdc/240~6,800 μ F



Conductive Polymer Hybrid Type

125℃ 低ESR, 高リップル, 高耐圧品

PZF series

Temp./Life: -55~+125℃/4,000hours

Volt./Cap.Range: 25~80Vdc/22~330 μ F



Conductive Polymer Hybrid Type

135℃ 低ESR, 高リップル, 高耐圧品

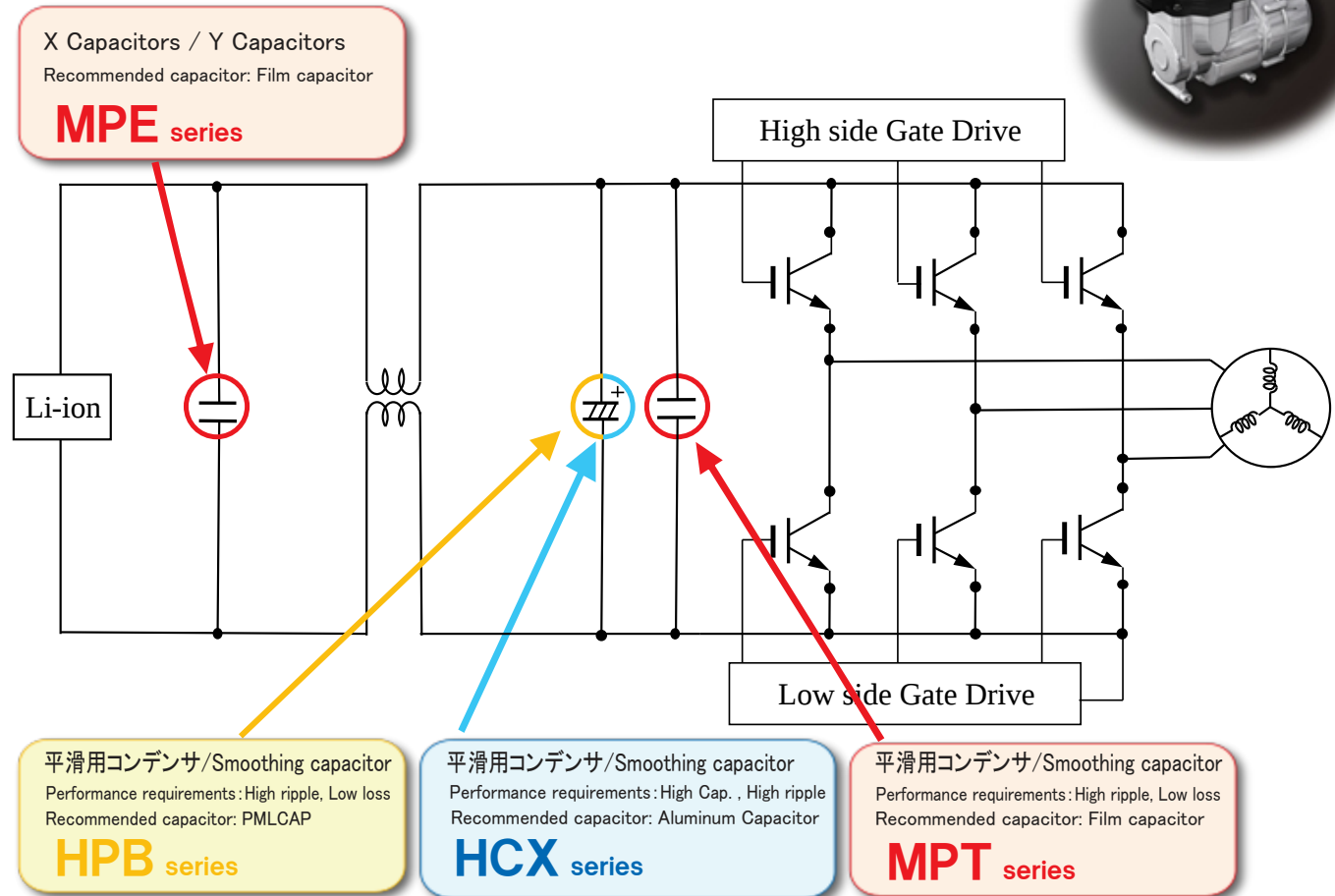
PZH series

Temp./Life: -55~+135℃/4,000hours

Volt./Cap.Range: 25~63Vdc/33~820 μ F



(3) 電動コンプレッサ Electric compressor



Aluminum Capacitors

小形、高リップル、高耐熱品

HCX series

Temp./Life: $-40 \sim +125^{\circ}\text{C}$ / 3,000hours

Volt./Cap.Range: 250~290Vdc / 22~51 μF



Film Capacitors

高耐熱、大電流品

MPT series

Temp.Range: $-40 \sim +125^{\circ}\text{C}$

Volt.Range: 630Vdc

Cap.Range: 1~6.8 μF



Polymer Multilayer Capacitors

高温、優れた温特、85°C85%RH対応品

HPB series (PMLCAP)

Temp.Range: $-55 \sim +125^{\circ}\text{C}$

Volt.Range: 500,900Vdc

Cap.Range: 10~25 μF

Humidity : 85°C85%RH
1000hours



Film Capacitors

高耐压品

MPE series

Temp.Range: $-40 \sim +105^{\circ}\text{C}$

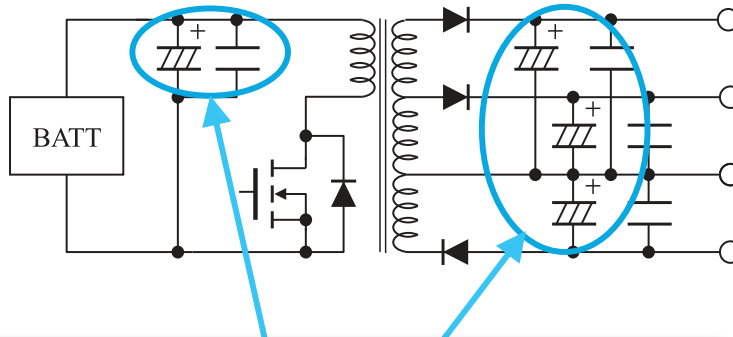
Volt.Range: 800Vdc/250Vac

~1600Vdc/700Vac

Cap.Range: 0.001~0.56 μF



(4) ゲート駆動DC/DCコンバータ Gate Drive DC/DC Converter



平滑用コンデンサ/Smoothing capacitor

Performance requirements: Low Impedance, High temperature, SurfaceMount

Recommended capacitor:

Aluminum Capacitor

Conductive Polymer Hybrid Type

Polymer Multilayer Capacitors
PMLCAP

TAV・**TGV** series

PKV・**PJV**・**PHV** series

MS series



Gate Drive DC/DC Converter

Conductive Polymer Hybrid Type

125℃ 低ESR, 高リップル, 高耐圧品, SMD

PKV series

Temp./Life: 125℃/4,000hours

Volt./Cap.Range: 25~35Vdc/220~560 μF



PJV series

Temp./Life: 125℃/4,000hours

Volt./Cap.Range: 25~63Vdc/47~820 μF

Conductive Polymer Hybrid Type

135℃ 低ESR, 高リップル, 高耐圧品, SMD

PHV series

Temp./Life: 135℃/2,000~4,000hours

Volt./Cap.Range: 25~63Vdc/33~560 μF



Aluminum Capacitors

高温度, 低ESR品

TAV series

Temp./Life: 125℃/2,000~4,000hours

Volt./Cap.Range: 35Vdc/47~330 μF



TGV series

Temp./Life: 125℃/3,000~5,000hours

Volt./Cap.Range: 16~80Vdc/33~3,300 μF

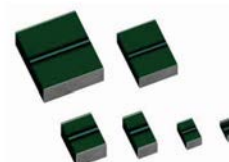
Polymer Multilayer Capacitors

高温度, 優れた温特, 85℃85%RH対応品

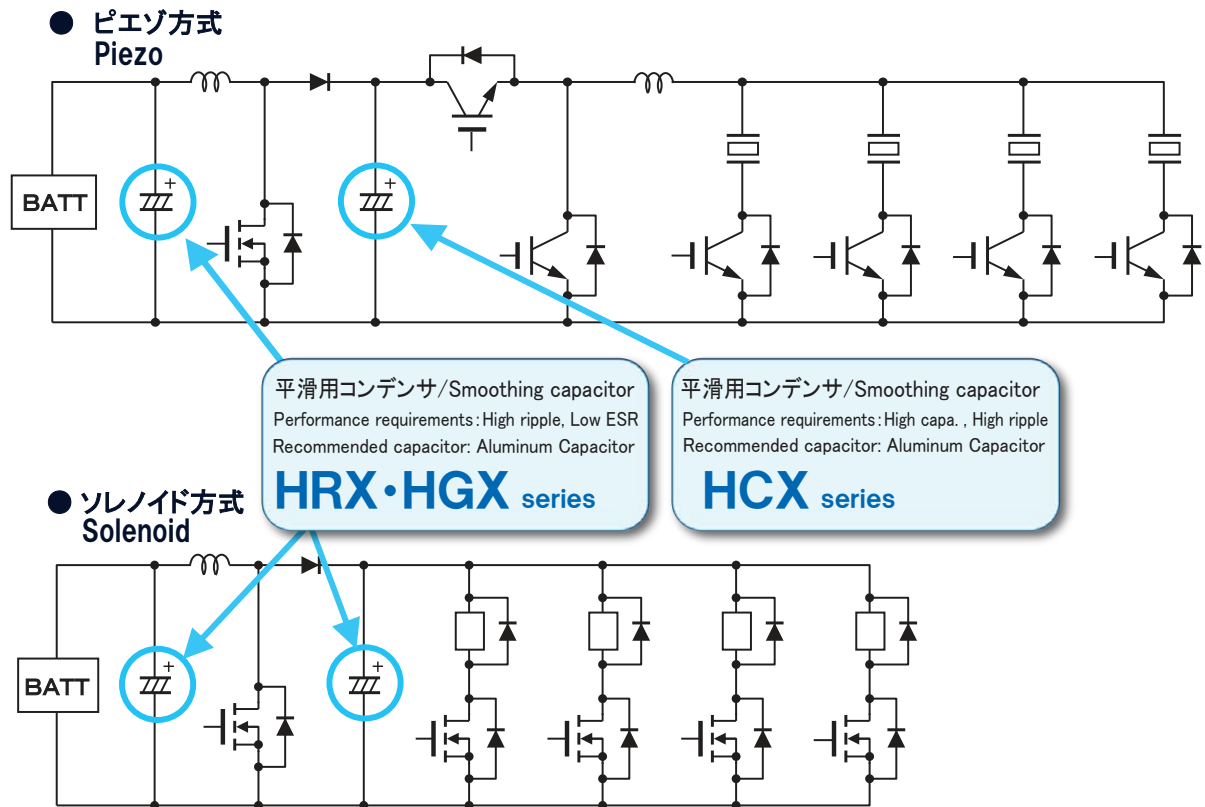
MS series (PMLCAP)

Temp.Range: -55~+125℃

Volt./Cap.Range: 10~50Vdc/0.001~2.2 μF



(5) インジェクタ駆動回路 Injector Drive



Injector Drive

Aluminum Capacitors

小形, 高リップル, 125℃3,000h保証品

HRX series

Volt./Cap.Range: 25~70Vdc/240~5,100 μ F



Aluminum Capacitors

小形, 高リップル, 125℃3,000h保証品

HCX series

Volt./Cap.Range: 250~290Vdc/22~51 μ F



Aluminum Capacitors

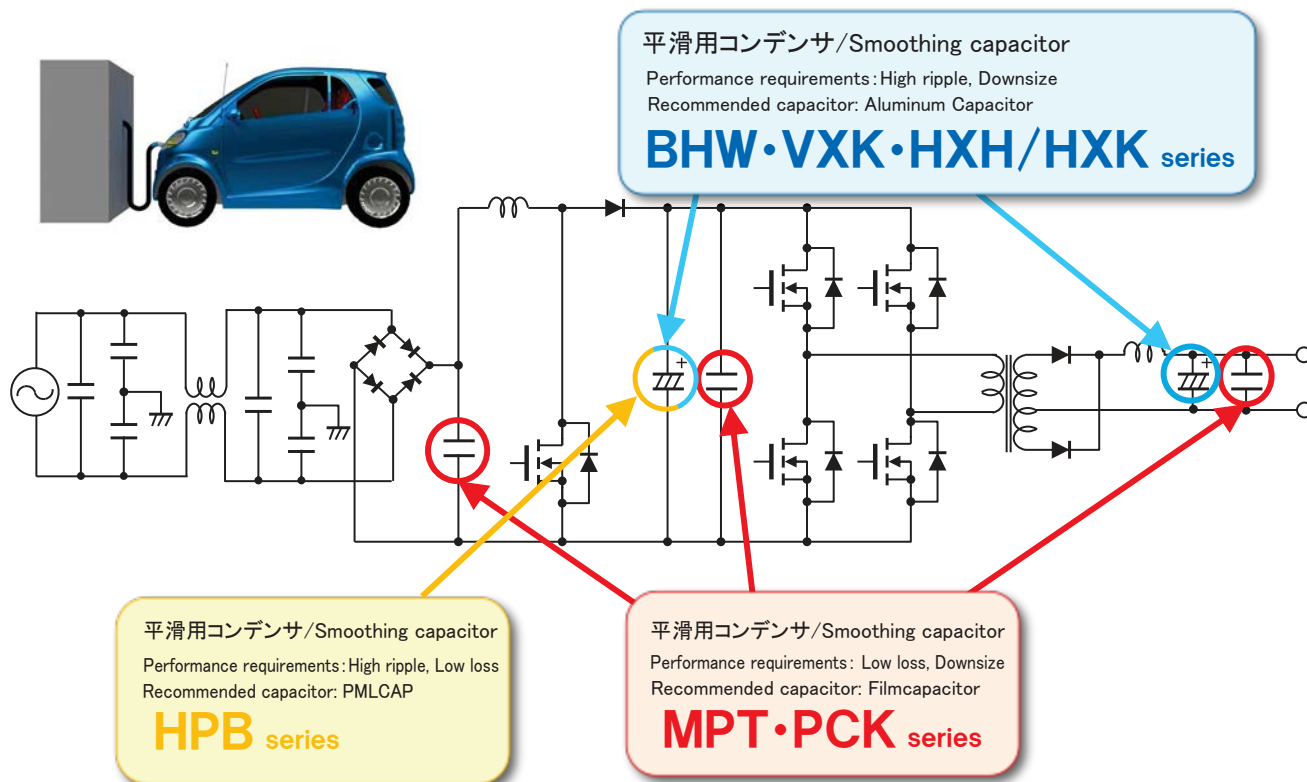
小形, 高リップル, 135℃3,000h保証品

HGX series

Volt./Cap.Range: 25~80Vdc/240~6,800 μ F



(6) 充電回路 接触 (プラグイン方式) Charging system of a plug-in vehicle



Charging system of a plug-in vehicle

Aluminum Capacitors

小形, 高リプル品

VXK series

Temp./Life: 105℃/5,000hours
Volt./Cap.Range: 400~500Vdc/68~1,200 μ F

超高リプル品

HXH/HXK series

Temp./Life: 105℃/5,000hours (or 3,000hours)
Volt./Cap.Range: 400~450Vdc/82~1,000 μ F



Aluminum Capacitors

超小形化, 長寿命品

BHW series

Temp./Life: 105℃/10,000~12,000hours
Volt./Cap.Range: 400~450Vdc/47~220 μ F



Polymer Multilayer Capacitors

高温, 優れた温特, 85℃85%RH対応品

HPB series (PMLCAP)

Temp.Range: -55~+125℃
Volt.Range: 500,900Vdc
Cap.Range: 10~25 μ F
Humidity : 85℃85%RH
1000hours



Film Capacitors

高耐熱, 大電流品

MPT series

Temp.Range: -40~+125℃
Volt./Cap.Range: 630Vdc/1~6.8 μ F

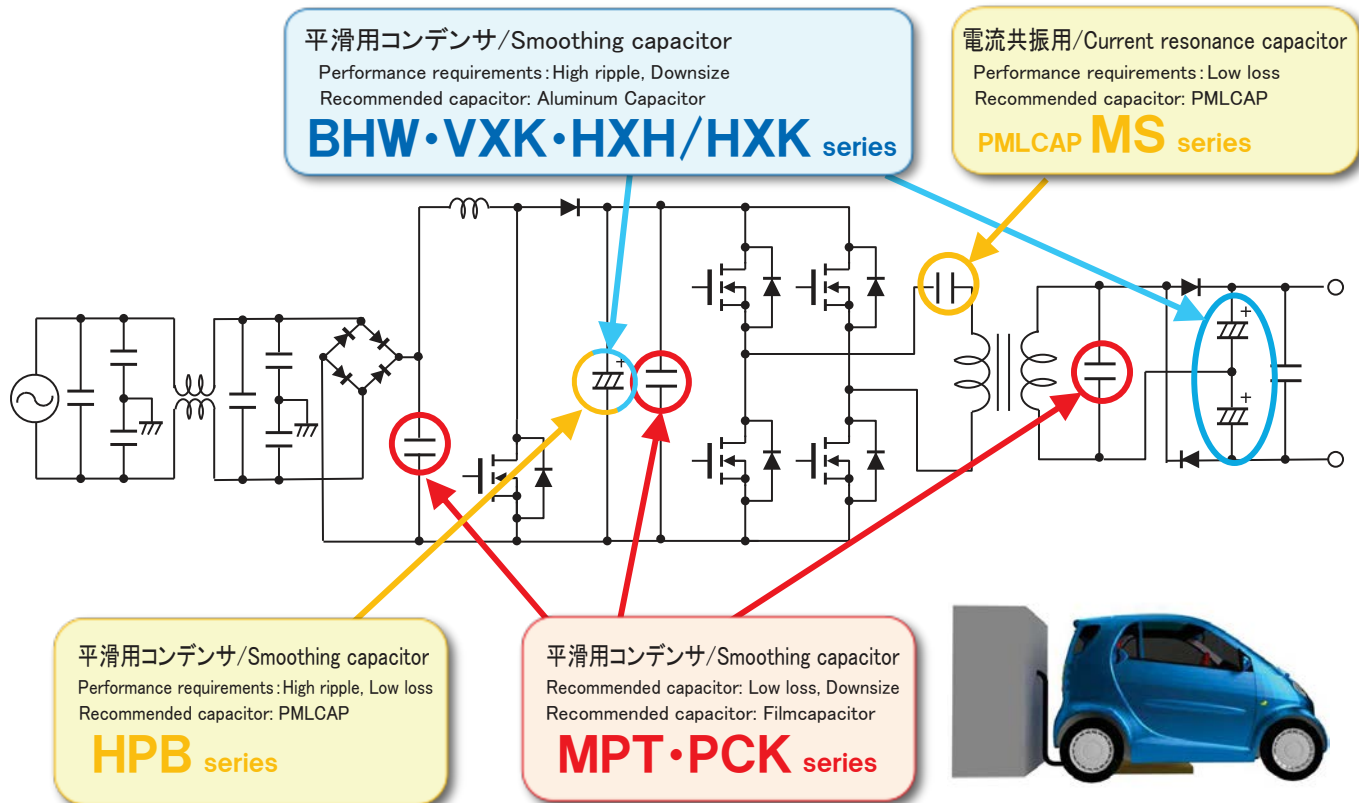
小形化, 大電流品

PCK series

Temp.Range: -40~+105℃ (85℃)
Volt./Cap.Range: 450~2,000Vdc/0.01~33 μ F



(7) 充電回路 非接触方式 Charging system of non contacting



Charging system of non contacting

Aluminum Capacitors 小形, 高リプル品 VXK series

Temp./Life: 105℃/5,000hours
Volt./Cap.Range: 400~500Vdc/68~1,200 μ F

超高リプル品 HXH/HXK series

Temp./Life: 105℃/5,000hours (or 3,000hours)
Volt./Cap.Range: 400~450Vdc/82~1,000 μ F



Aluminum Capacitors 超小形化, 長寿命品 BHW series

Temp./Life: 105℃/10,000~12,000hours
Volt./Cap.Range: 400~450Vdc/47~220 μ F



Film Capacitors 高耐熱, 大電流品 MPT series

Temp.Range: -40~+125℃
Volt./Cap.Range: 630Vdc/1~6.8 μ F

小形化, 大電流品 PCK series

Temp.Range: -40~+105℃ (85℃)
Volt./Cap.Range: 450~2,000Vdc/0.01~33 μ F



Polymer Multilayer Capacitors 高温, 優れた温特, 85℃85%RH対応品 HPB series (PMLCAP)

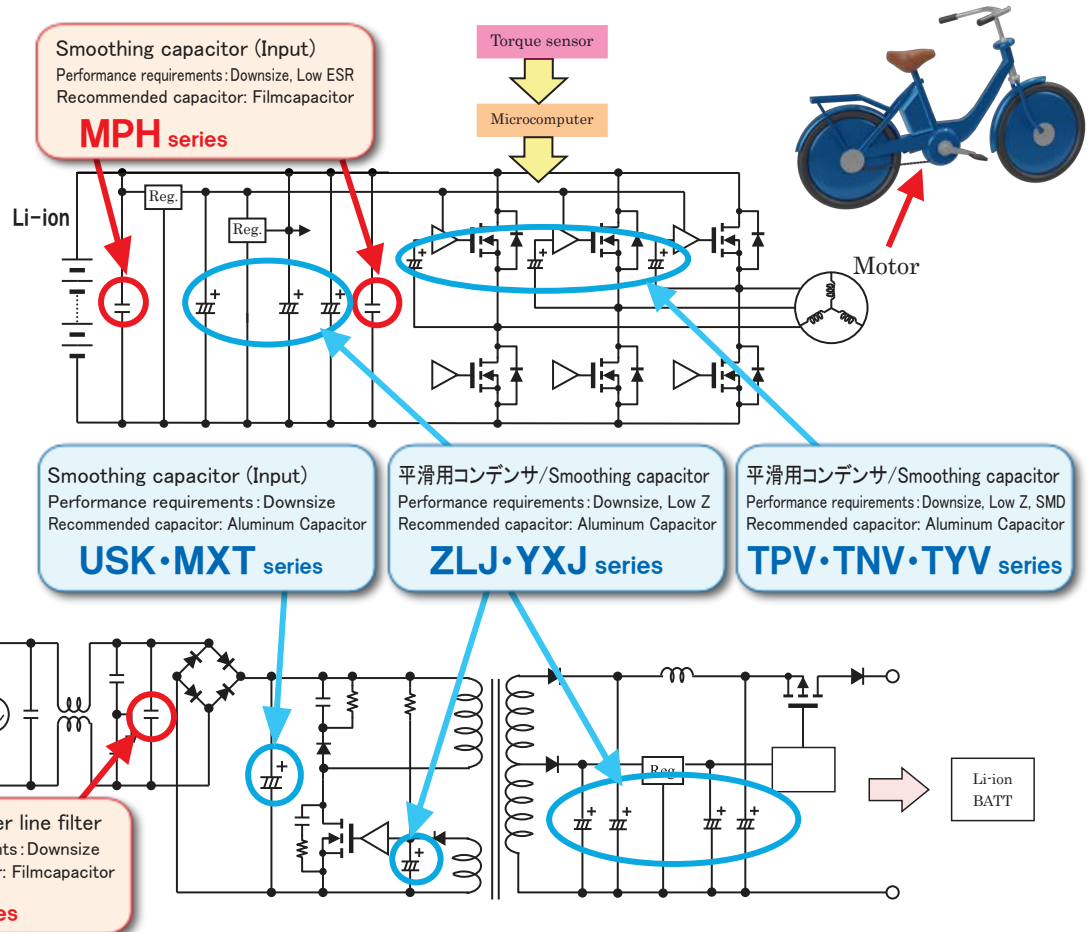
Temp.Range: -55~+125℃
Volt.Range: 500,900Vdc
Cap.Range: 10~25 μ F

MS series (PMLCAP)

Temp.Range: -55~+125℃
Volt./Cap.Range: 10~50Vdc/0.001~2.2 μ F



〔車両本体〕
E-bicycle



Electric power-assisted bicycle

Film Capacitors

小形, ACライン用

MMBA series

Temp./Range: -40~+85℃

Volt./Cap.Range: 125, 250Vac/0.01~1 μF

小形化 大電流品

MPH series

Temp./Range: -40~+105℃

Volt./Cap.Range: 100~800Vdc/0.047~22 μF



Aluminum Capacitors

小形化, 長寿命, 低インピーダンス品

ZLJ series

Temp./Life: 105℃/6,000~10,000hours

Volt./Cap.Range: 6.3~120Vdc/8.2~8,200 μF

YXJ series

Temp./Life: 105℃/4,000~10,000hours

Volt./Cap.Range: 6.3~100Vdc/1~15,000 μF



Aluminum Capacitors

超小形化品

USK series

Temp./Life: 85℃/3,000hours

Volt./Cap.Range: 16~500Vdc/100~82,000 μF

MXT series

Temp./Life: 105℃/3,000hours

Volt./Cap.Range: 400~500Vdc/150~1,500 μF



Aluminum Capacitors

小形化, 高リプル, 低ESR品

TPV series

Temp./Life: 105℃/2,000hours

Volt./Cap.Range: 6.3~50Vdc/47~2,200 μF

TNV series

Temp./Life: 105℃/3,000~5,000hours

Volt./Cap.Range: 6.3~35Vdc/330~2,200 μF

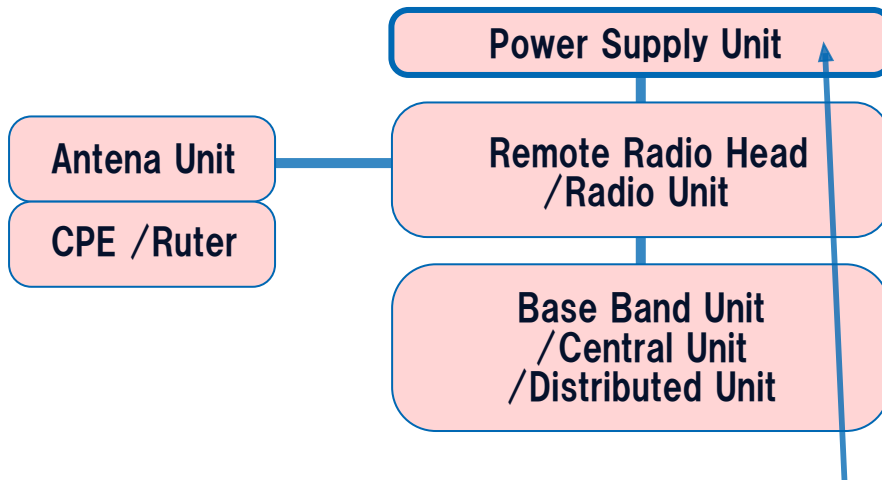
TYV series

Temp./Life: 105℃/8,000hours

Volt./Cap.Range: 25,35Vdc/330~820 μF



(1) 電源回路 Power Supply Unit



平滑用コンデンサ/Smoothing capacitor

Performance requirements: High temp. , Longlife, Downsize, High ripple, Low ESR

Recommended capacitor:

Smoothing capacitor (INPUT)

Aluminum Capacitor

VXT·THK series

LXW·EXW series

Smoothing capacitor (OUTPUT)

Conductive Polymer Hybrid Type

PZK·PZJ·PZF·PZE series

Aluminum Capacitor

RXF·RXL·JXF·ZLJ series

Power Supply Unit

Aluminum Capacitors

小形化, 長寿命, 高温度品

VXT series

Temp./Life: 105℃ / 5,000hours

Volt./Cap.Range : 400~450Vdc / 120~1,200 μF

THK series

Temp./Life: 125℃ / 2,000hours

Volt./Cap.Range : 400~450Vdc / 100~1,000 μF



Aluminum Capacitors

小形化, 長寿命, 高温度品

LXW series

Temp./Life: 105℃ / 10,000~12,000hours

Volt./Cap.Range : 400~500Vdc / 18~220 μF

EXW series

Temp./Life: 125℃ / 3,000~5,000hours

Volt./Cap.Range : 400~500Vdc / 8.2~150 μF

Aluminum Capacitors

長寿命, 低Z品

RXF series

Temp./Life: 125℃ / 2,000~5,000hours

Volt./Cap.Range : 25~80Vdc / 180~7,500 μF

RXL series

Temp./Life: 125℃ / 3,000~8,000hours

Volt./Cap.Range : 16~35Vdc / 510~7,500 μF

ZLJ series

Temp./Life: 105℃ / 6,000~10,000hours

Volt./Cap.Range : 6.3~120Vdc / 8.2~8,200 μF

JXF series

Temp./Life: 105℃ / 6,000~8,000hours

Volt./Cap.Range : 16~100Vdc / 68~10,000 μF



Conductive Polymer Hybrid Type

低ESR, 高リップル品

PZK series

Temp./Life: 125℃ / 4,000hours

Volt./Cap.Range : 25,35Vdc / 220~560 μF

PZJ series

Temp./Life: 125℃ / 4,000hours

Volt./Cap.Range : 25~63Vdc / 47~820 μF

PZF series

Temp./Life: 125℃ / 4,000hours

Volt./Cap.Range : 25~80Vdc / 22~330 μF

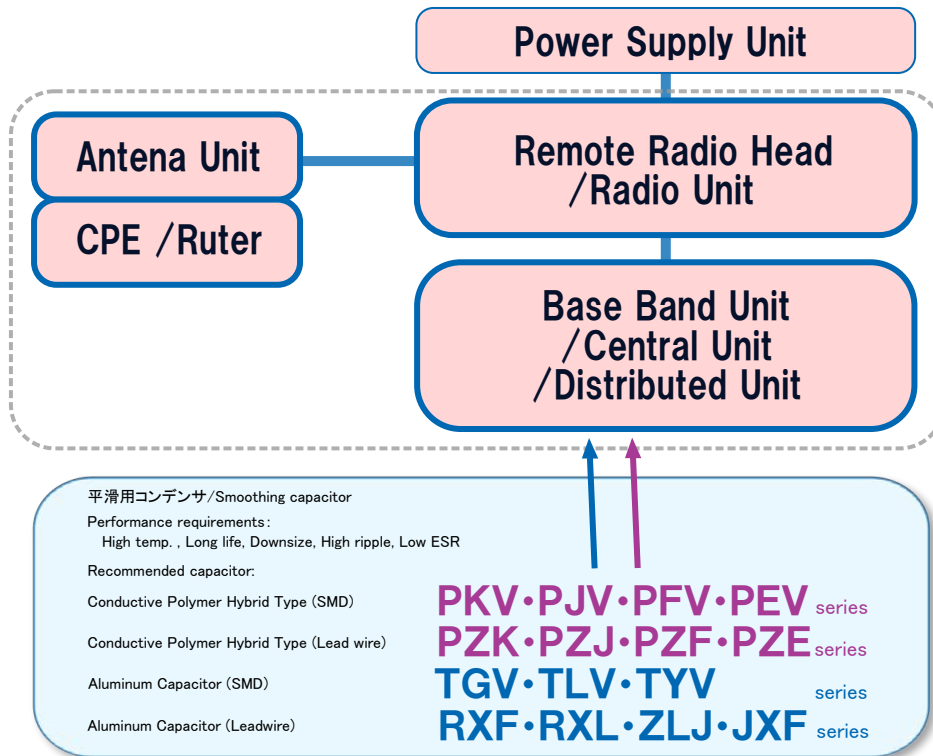
PZE series

Temp./Life: -55~+105℃ / 10,000hours

Volt./Cap.Range : 25~80Vdc / 22~330 μF



(2) 通信回路 Communication Unit



Communication Unit

Conductive Polymer Hybrid Type
低ESR, 高リップル品, リード線タイプ

PZK series

Temp./Life: 125℃/4,000hours
Volt./Cap.Range: 25,35Vdc/220~560 μF

PZJ series

Temp./Life: 125℃/4,000hours
Volt./Cap.Range: 25~63Vdc/47~820 μF

PZF series

Temp./Life: 125℃/4,000hours
Volt./Cap.Range: 25~80Vdc/22~330 μF

PZE series

Temp./Life: -55~+105℃/10,000hours
Volt./Cap.Range: 25~80Vdc/22~330 μF



Aluminum Capacitors

小形化, 長寿命, 低ESR, SMD
TGV series

Temp./Life: 125℃/3,000~5,000hours
Volt./Cap.Range: 16~80Vdc/33~3,300 μF

TLV series

Temp./Life: 105℃/2,000~5,000hours
Volt./Cap.Range: 6.3~100Vdc/22~10,000 μF

TYV series

Temp./Life: 105℃/8,000hours
Volt./Cap.Range: 25,35Vdc/330~820 μF



Conductive Polymer Hybrid Type
長寿命, 低ESR, 高リップル, SMD

PKV series

Temp./Life: 125℃/4,000hours
Volt./Cap.Range: 25,35Vdc/220~560 μF

PJV series

Temp./Life: 125℃/4,000hours
Volt./Cap.Range: 25~63Vdc/47~820 μF

PFV series

Temp./Life: 125℃/4,000hours
Volt./Cap.Range: 25~80Vdc/10~330 μF

PEV series

Temp./Life: -55~+105℃/10,000hours
Volt./Cap.Range: 25~80Vdc/10~330 μF



Aluminum Capacitors

長寿命, 低Z品

RXF series

Temp./Life: 125℃/2,000~5,000hours
Volt./Cap.Range: 25~80Vdc/180~7,500 μF

RXL series

Temp./Life: 125℃/3,000~8,000hours
Volt./Cap.Range: 16~35Vdc/510~7,500 μF

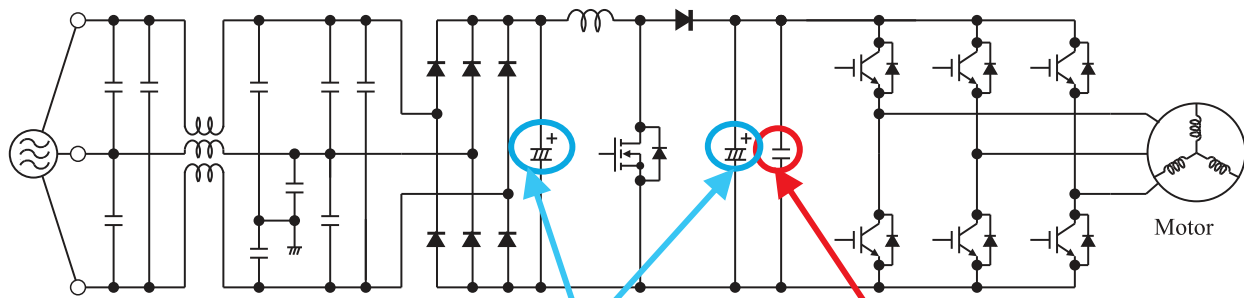
ZLJ series

Temp./Life: 105℃/6,000~10,000hours
Volt./Cap.Range: 6.3~120Vdc/8.2~8,200 μF

JXF series

Temp./Life: 105℃/6,000~8,000hours
Volt./Cap.Range: 16~100Vdc/68~10,000 μF





平滑用コンデンサ/Smoothing capacitor
Performance requirements: High ripple
Recommended capacitor: Aluminum Capacitor
MXH・VXH series

スナバ用コンデンサ/Snubber circuit
Performance requirements: Downsize, Low ESL, Low ESR
Recommended capacitor: Film capacitor
MPH・PCK series



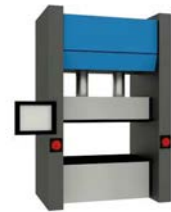
Belt conveyor



Elevator



Industrial robot



Press machine

Inverters for general purpose

Aluminum Capacitors
105℃, 小形化, 3000h保証品

MXH series

Volt. : 400~550Vdc
Cap. : 56~1,200μF

●多端子形状も対応可能



Aluminum Capacitors
105℃, 小形化, 5000h保証品

VXH series

Volt. : 200~500Vdc
Cap. : 56~2,700μF

●多端子形状も対応可能



Film Capacitors
小形化, 大電流品
MPH series

Temp.Range: -40~+105℃
Volt./Cap.Range: 100~800Vdc/0.47~22μF

大電流, 低うなり音品
PCK series

Temp.Range: -40~+105℃ (85℃)
Volt./Cap.Range: 450~2,000Vdc/0.01~33μF





平滑用コンデンサ/Smoothing capacitor

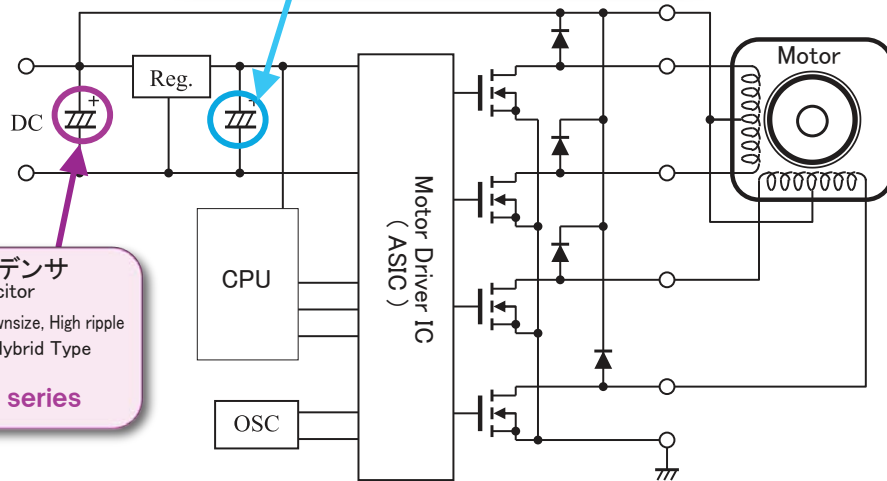
Performance requirements: Low impedance
Recommended capacitor: Aluminum Capacitors

ZLQ・TPV・TYV・TNV series

平滑、バッファ用コンデンサ
Smoothing & Buffer capacitor

Performance requirements: Downsize, High ripple
Recommended capacitor: Hybrid Type

PZE・PEV series



Printer



Laptop Computer



Slot machine

Stepper Motor

Conductive Polymer Hybrid Type
105℃, 低ESR, 高リプル, 高耐圧品
PZE series

Temp./Life: -55~+105℃/10,000hours
Volt./Cap.Range: 25~80Vdc/22~330 μF



Aluminum Capacitors
小形化, 低インピーダンス品
ZLQ series

Temp./Life: 105℃/3,000~6,000hours
Volt./Cap.Range: 6.3~35Vdc/56~12,000 μF



Conductive Polymer Hybrid Type
105℃, 低ESR, 高リプル, 高耐圧品, SMD
PEV series

Temp./Life: -55~+105℃/10,000hours
Volt./Cap.Range: 25~80Vdc/10~330 μF



Aluminum Capacitors
小形化, 高リプル, 低ESR品
TPV series

Temp./Life: 105℃/2,000hours
Volt./Cap.Range: 6.3~50Vdc/47~2,200 μF



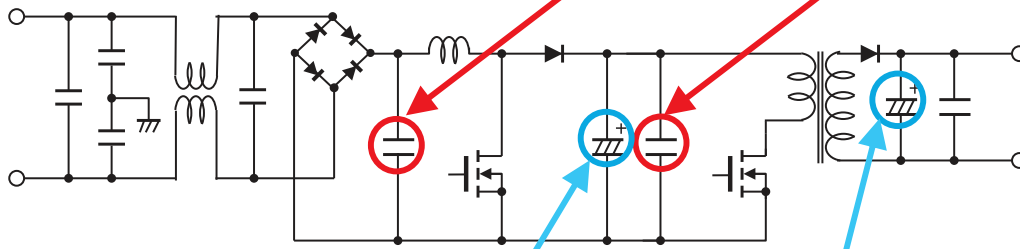
TNV series
Temp./Life: 105℃/3,000~5,000hours
Volt./Cap.Range: 6.3~35Vdc/330~2,200 μF

TYV series
Temp./Life: 105℃/8,000hours
Volt./Cap.Range: 25,35Vdc/330~820 μF

PFC付き フライバック回路 PFC Flyback-Converter

入力部平滑用コンデンサ/Smoothing capacitor(INPUT)
Performance requirements: Low loss, Downsize
Recommended: Film capacitor **MPK・MPY series**

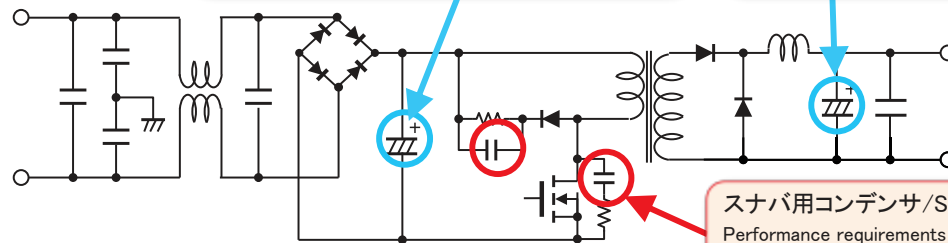
スナバ用コンデンサ/Snubber circuit
Performance requirements: Low ESR, Low ESL, Downsize
Recommended: Film capacitor **MPE series**



スナバ付き フォワード回路 Snubber/Forward-Converter

入力部平滑用コンデンサ/Smoothing capacitor(INPUT)
Performance requirements: Downsize, High ripple
Recommended capacitor: Aluminum Capacitors
USK・MXT・VXK series (Snap-in Type)
HXW・CXW・LXW series (Lead Type)

平滑用コンデンサ/Smoothing capacitor
Performance requirements: Low Z, Downsize, Long life, High ripple
Recommended capacitor: Aluminum Capacitors
ZLQ・ZLJ series



Switch-Mode Power Supply

Aluminum Capacitors 超小形化品

USK series

Temp./Life: 85℃/3,000hours
Volt./Cap.Range: 16~500Vdc/100~82,000 μF

MXT series

Temp./Life: 105℃/3,000hours
Volt./Cap.Range: 400~450Vdc/150~1,500 μF

VXT series

Temp./Life: 105℃/5,000hours
Volt./Cap.Range: 400~450Vdc/120~1,200 μF



Aluminum Capacitors 小形, 薄型化対応

HXW series

Temp./Life: 105℃/2,000~3,000hours
Volt./Cap.Range: 400~500Vdc/22~270 μF

CXW series

Temp./Life: 105℃/5,000hours
Volt./Cap.Range: 180~500Vdc/10~680 μF

LXW series

Temp./Life: 105℃/10,000~12,000hours
Volt./Cap.Range: 400~500Vdc/18~220 μF



Film Capacitors 小形品・低うなり音

MPY series

Temp.Range: -40~+105℃
Volt./Cap.Range: 450Vdc/0.47~10 μF

MPK series

Temp.Range: -40~+105℃ (85℃)
Volt./Cap.Range: 450~800Vdc/0.1~4.7 μF

コロナ放電特性改善品

MPE series

Temp.Range: -40~+105℃
Volt.Range: 800Vdc/250Vac~1,600Vdc/700Vac
Cap.Range: 0.001~0.56 μF



Aluminum Capacitors

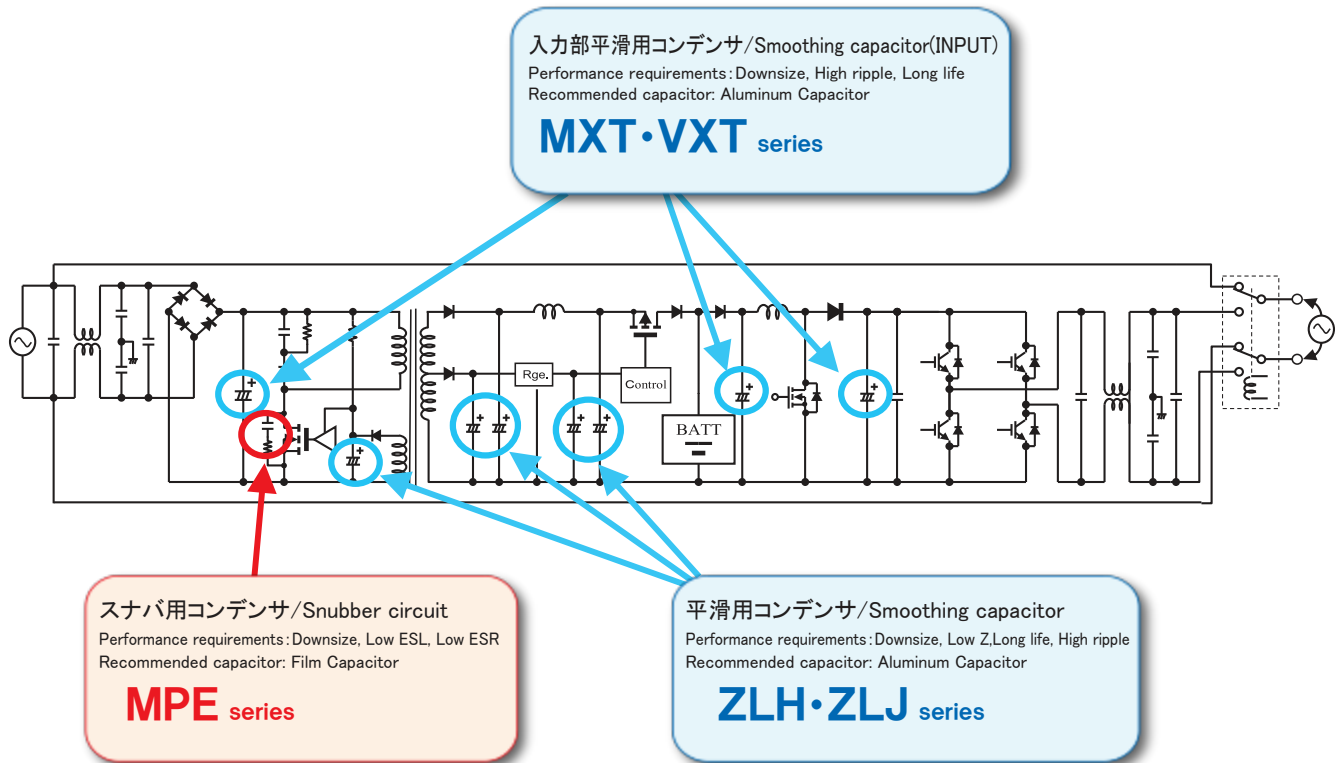
小形化, 長寿命, 低インピーダンス品 ZLJ series

Temp./Life: 105℃/6,000~10,000hours
Volt./Cap.Range: 6.3~120Vdc/8.2~8,200 μF

ZLQ series

Temp./Life: 105℃/3,000~6,000hours
Volt./Cap.Range: 6.3~35Vdc/56~12,000 μF





Uninterruptible Power Supply

Aluminum Capacitors

超小形化品

MXT series

Temp./Life: 105℃/3,000hours
Volt./Cap.Range: 400~450Vdc/150~1,500 μ F

VXT series

Temp./Life: 105℃/5,000hours
Volt./Cap.Range: 400~450Vdc/120~1,200 μ F



Aluminum Capacitors

小形化, 長寿命, 低インピーダンス品

ZLJ series

Temp./Life: 105℃/6,000~10,000hours
Volt./Cap.Range: 6.3~120Vdc/8.2~8,200 μ F

ZLH series

Temp./Life: 105℃/6,000~10,000hours
Volt./Cap.Range: 6.3~100Vdc/8.2~8,200 μ F



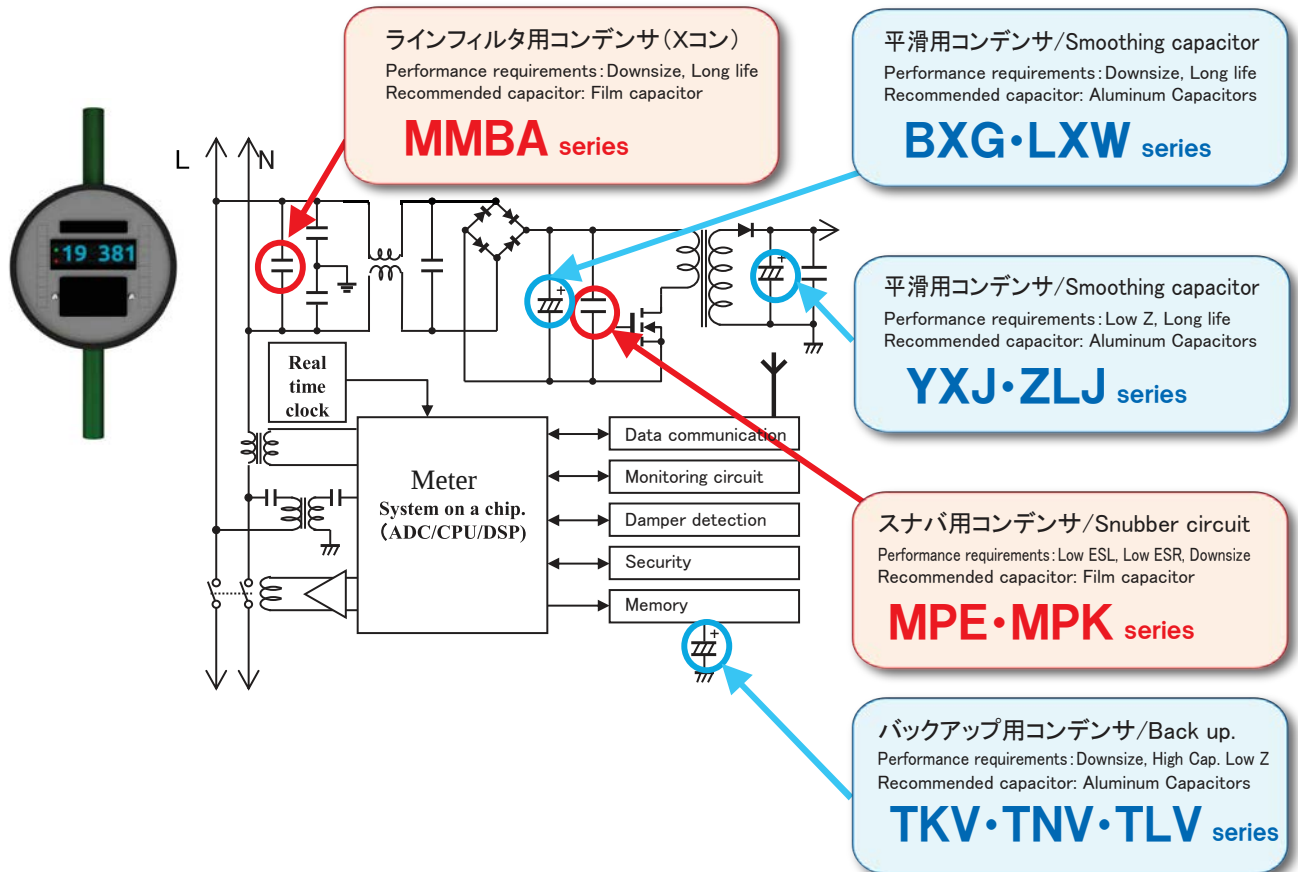
Film Capacitors

コロナ放電特性改善品

MPE series

Temp.Range: -40~+105℃
Volt. Range: 800Vdc/250Vac~1,600Vdc/700Vac
Cap. Range: 0.001~0.56 μ F





Smart Meter

Film Capacitors

MMBA series 小形, 低うなり音, ACライン用

Temp. Range : -40~+85℃
Volt./Cap. Range: 125, 250Vac/0.01~1μF

MPE series コロナ放電特性改善品

Temp. Range : -40~+105℃
Volt. Range : 800Vdc/250Vac~1,600Vdc/700Vac
Cap. Range : 0.001~0.56μF

MPK series 小形化品, 低うなり音

Temp. Range : -40~+105℃ (85℃)
Volt./Cap. Range: 450~800Vdc/0.1~4.7μF



Aluminum Capacitors

小形化, 長寿命品



BXG series

Temp./Life : 105℃/10,000~12,000hours
Volt./Cap. Range: 160~450Vdc/8.2~270μF

LXW series

Temp./Life : 105℃/10,000~12,000hours
Volt./Cap. Range: 400~500Vdc/18~220μF

Aluminum Capacitors

小形, 高容量, 低Z, 長寿命品

TKV series

Temp./Life : 105℃/2,000hours
Volt./Cap. Range: 6.3~35Vdc/33~1,800μF

TNV series

Temp./Life : 105℃/3,000~5,000hours
Volt./Cap. Range: 6.3~35Vdc/330~2,200μF

TLV series

Temp./Life : 105℃/2,000~5,000hours
Volt./Cap. Range: 6.3~100Vdc/22~10,000μF



Aluminum Capacitors

小形, 低Z, 高リプル電流, 長寿命品

YXJ series

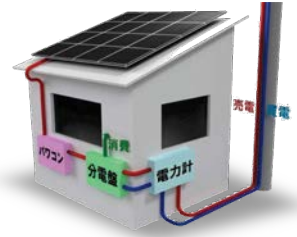
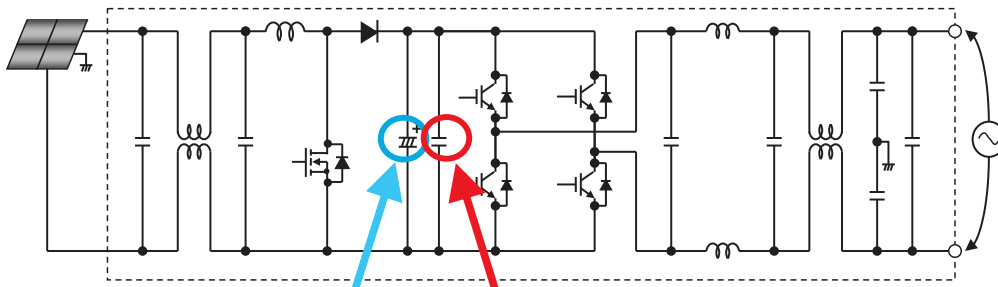
Temp./Life : 105℃/4,000~10,000hours
Volt./Cap. Range: 6.3~100Vdc/1~15,000μF

ZLJ series

Temp./Life : 105℃/6,000~10,000hours
Volt./Cap. Range: 6.3~120Vdc/8.2~8,200μF



Solar Photovoltaics



平滑用コンデンサ/Smoothing capacitor
Performance requirements: High cap., Long life, Overvoltage
Recommended capacitor: Aluminum Capacitor

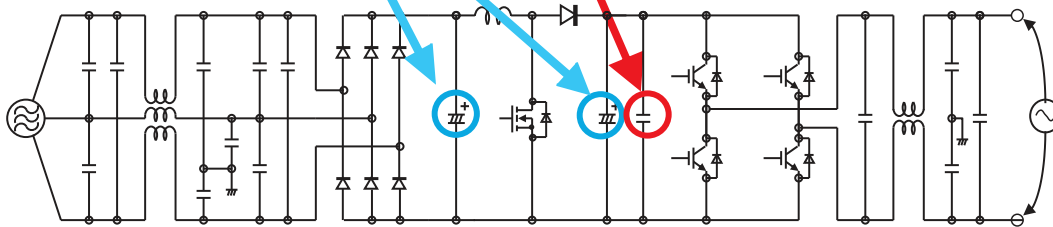
MXH・VXH series

スナバ用コンデンサ/Snubber circuit
Performance requirements: Low ESL, Low ESR, High ripple
Recommended capacitor: Film Capacitor

MPH・PCK series HPB series



Wind Power



Solar Photovoltaics / Wind Power

Aluminum Capacitors
105℃, 小形化, 3000h保証品

MXH series

Volt. : 400~550Vdc
Cap. : 56~1,200μF

●多端子形状も対応可能



Aluminum Capacitors
105℃, 小形化, 5000h保証品

VXH series

Volt. : 200~500Vdc
Cap. : 56~2,700μF

●多端子形状も対応可能



Film Capacitors
小形化, 大電流品
MPH series

Temp.Range: -40~+105℃
Volt./Cap.Range: 100~800Vdc/0.47~22μF

大電流, 低うなり音品

PCK series

Temp.Range: -40~+105℃ (85℃)
Volt./Cap.Range: 450~2,000Vdc/0.01~33μF

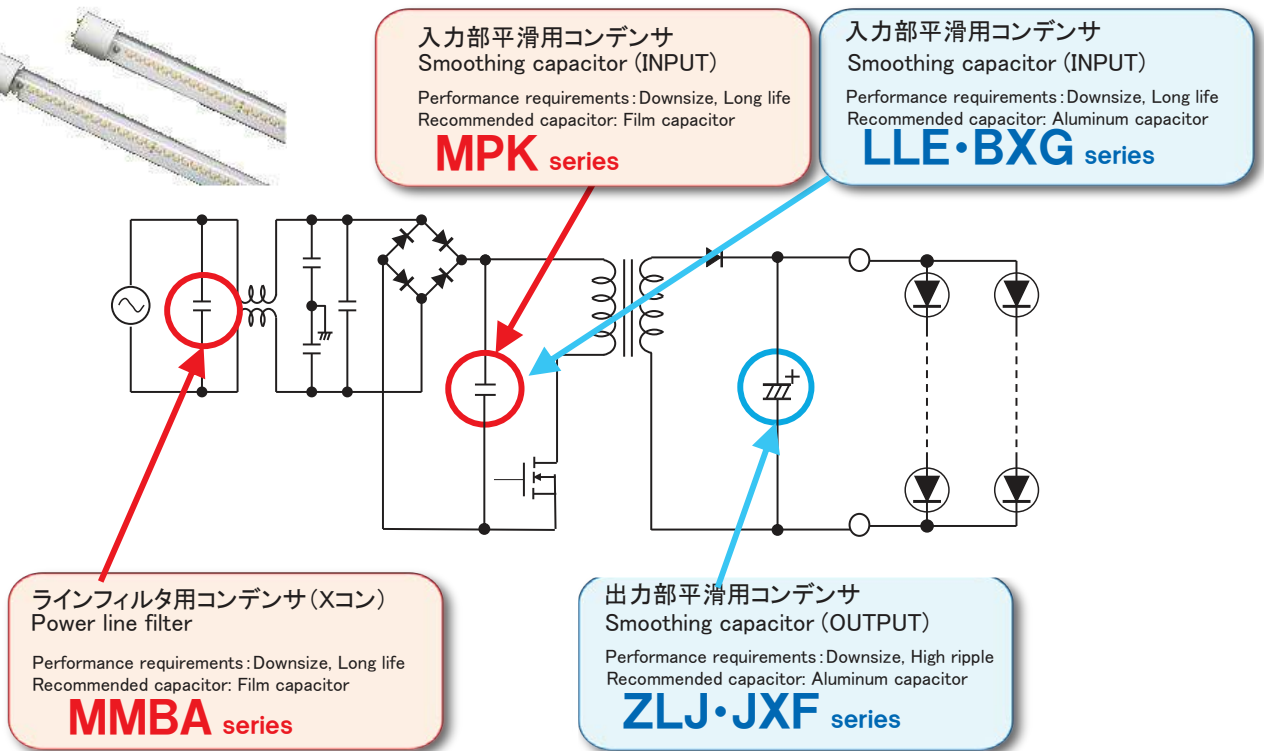


Polymer Multilayer Capacitors
高温, 優れた温特, 85℃85%RH対応品
HPB series (PMLCAP)

Temp.Range: -55~+125℃
Volt.Range: 500,900Vdc
Cap.Range: 10~25μF
Humidity : 85℃85%RH
1000hours



(1) LED 絶縁型 LED Light (insulated circuit)



Straight tube LED (insulated circuit)

Aluminum Capacitors

小形化, 長寿命品



BXG series

Temp./Life : 105℃/10,000~12,000hours
Volt./Cap.Range: 160~450Vdc/8.2~270 μ F

LLE series

Temp./Life : 105℃/12,000~20,000hours
Volt./Cap.Range: 160~450Vdc/1~68 μ F

Aluminum Capacitors

小形化, 長寿命, 低Z品



ZLJ series

Temp./Life : 105℃/6,000~10,000hours
Volt./Cap.Range: 6.3~120Vdc/8.2~8,200 μ F

JXF series

Temp./Life : 105℃/6,000~8,000hours
Volt./Cap.Range: 16~100Vdc/68~10,000 μ F

Film Capacitors

小形化 ACライン雑音防止用

MMBA series

Temp.Range: -40~+85℃
Volt.Range: 125, 250Vac
Cap.Range: 0.01~1 μ F



Film Capacitors

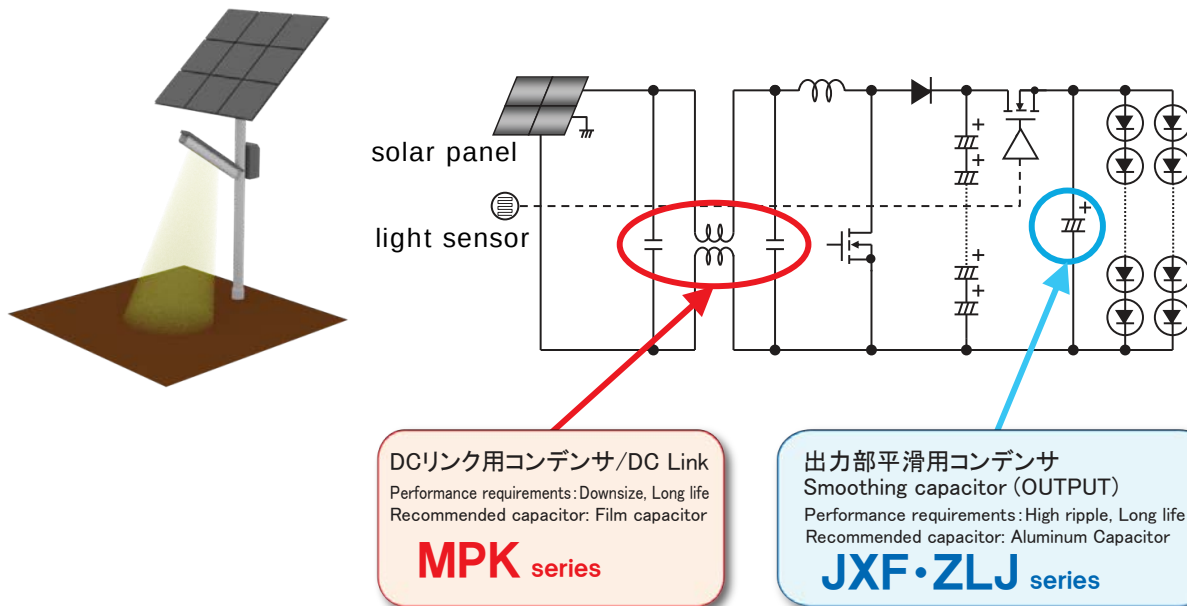
小形化品

MPK series

Temp.Range: -40~+105℃ (85℃)
Volt.Range: 450~800Vdc
Cap.Range: 0.1~4.7 μ F



(2) 街路灯 Street light



Street light

Film Capacitors
小形化品

MPK series

Temp.Range: $-40 \sim +105^{\circ}\text{C}$ (85°C)

Volt.Range: $450 \sim 800\text{Vdc}$

Cap.Range: $0.1 \sim 4.7 \mu\text{F}$



Aluminum Capacitors

小形, 低Z, 高リップル電流, 長寿命品

ZLJ series

Temp./Life : $105^{\circ}\text{C} / 6,000 \sim 10,000\text{hours}$

Volt./Cap.Range: $6.3 \sim 120\text{Vdc} / 8.2 \sim 8,200 \mu\text{F}$



Aluminum Capacitors

小形化, 低Z, 高リップル,
低温特性改善

JXF series

Temp.Range: $-55 \sim +105^{\circ}\text{C}$

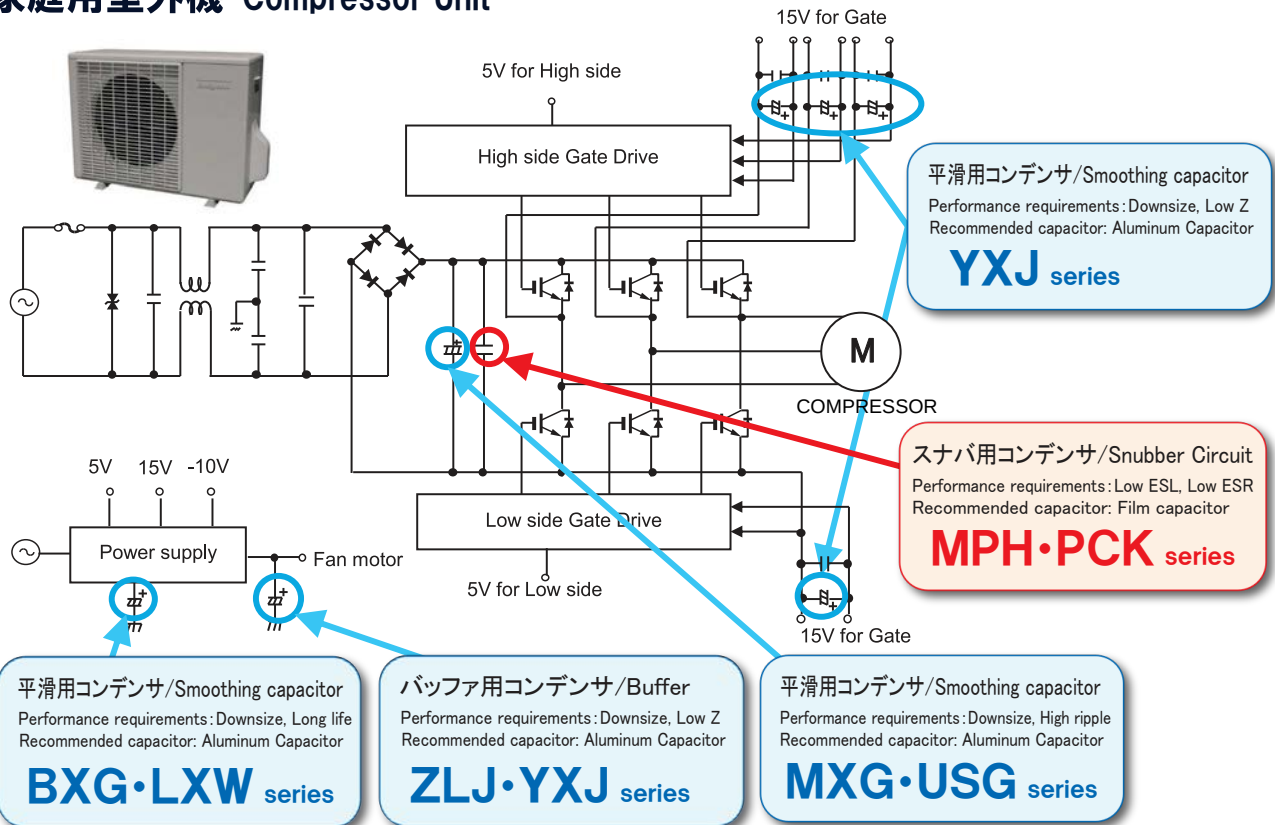
Life Time: $6,000 \sim 8,000\text{hours}$

Volt.Range: $16 \sim 100\text{Vdc}$

Cap.Range: $68 \sim 10,000 \mu\text{F}$



(1) 家庭用室外機 Compressor Unit



Compressor Unit

Aluminum Capacitors

小形化品

MXG series

Temp./Life: 105°C/3,000hours
Volt./Cap.Range: 10~500Vdc/39~68,000 μ F

USG series

Temp./Life: 85°C/3,000hours
Volt./Cap.Range: 10~450Vdc/68~82,000 μ F



Aluminum Capacitors

小形化, 長寿命, 低インピーダンス品

ZLJ series

Temp./Life: 105°C/6,000~10,000hours
Volt./Cap.Range: 6.3~120Vdc/8.2~8,200 μ F

YXJ series

Temp./Life: 105°C/4,000~10,000hours
Volt./Cap.Range: 6.3~100Vdc/1~15,000 μ F



Film Capacitors

小形化 大電流品

MPH series

Temp.Range: -40~+105°C
Volt./Cap.Range: 100~800Vdc/0.047~22 μ F

大電流, 低うなり音品

PCK series

Temp.Range: -40~+105°C (85°C)
Volt./Cap.Range: 450~2,000Vdc/0.01~33 μ F



Aluminum Capacitors

小形化, 長寿命品

BXG series

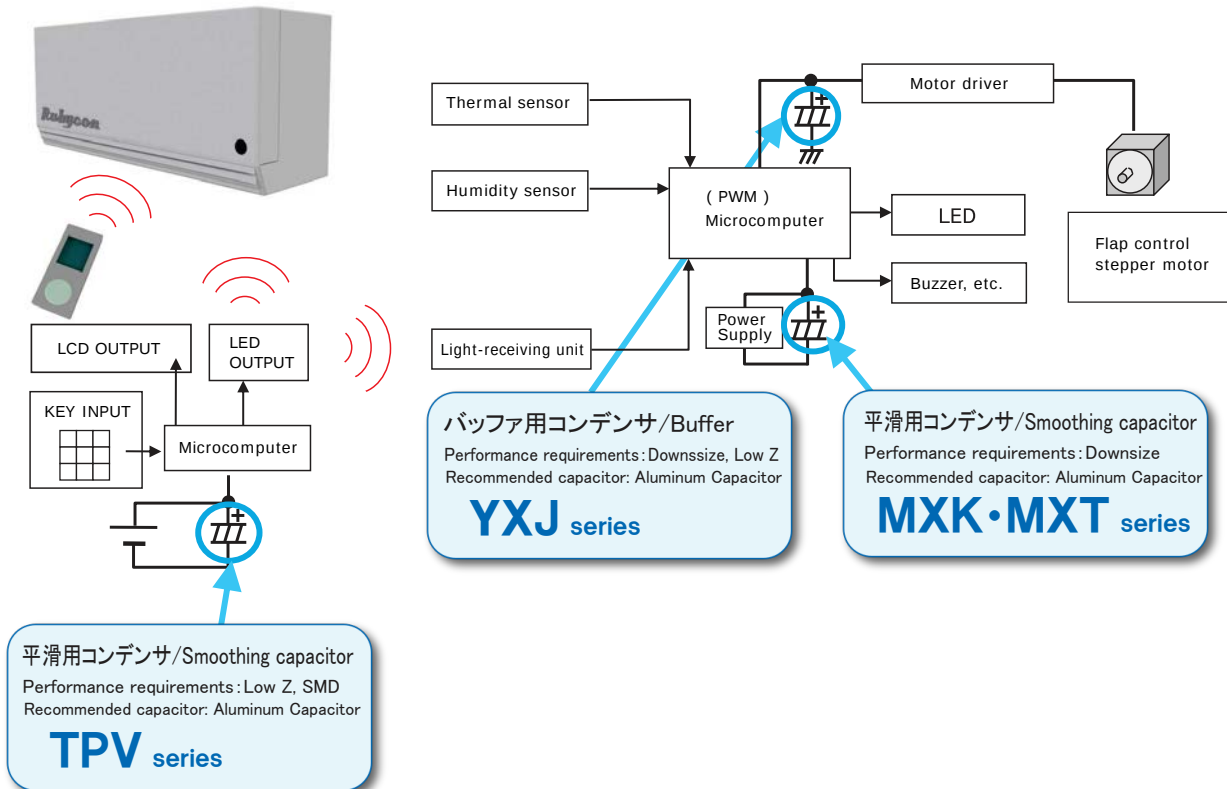
Temp./Life: 105°C/10,000~12,000hours
Volt./Cap.Range: 160~450Vdc/8.2~270 μ F

LXW series

Temp./Life: 105°C/10,000~12,000hours
Volt./Cap.Range: 400~500Vdc/18~220 μ F



(2) 家庭用室内機 Air conditioner Cooling Unit



Air conditioner Cooling Unit

Aluminum Capacitors
105℃, 3,000h 保証, 超小形化品

MXK series

Temp./Life: 105℃/3,000hours
Volt./Cap.Range: 16~500Vdc/68~82,000 μF



Aluminum Capacitors
小形化, 長寿命, 低インピーダンス品

YXJ series

Temp./Life : 105℃/4,000~10,000hours
Volt./Cap.Range: 6.3~100Vdc/1~15,000 μF



Aluminum Capacitors
105℃, 3,000h 保証, 超小形化品

MXT series

Temp./Life: 105℃/3,000hours
Volt./Cap.Range: 400~450Vdc/150~1,500 μF

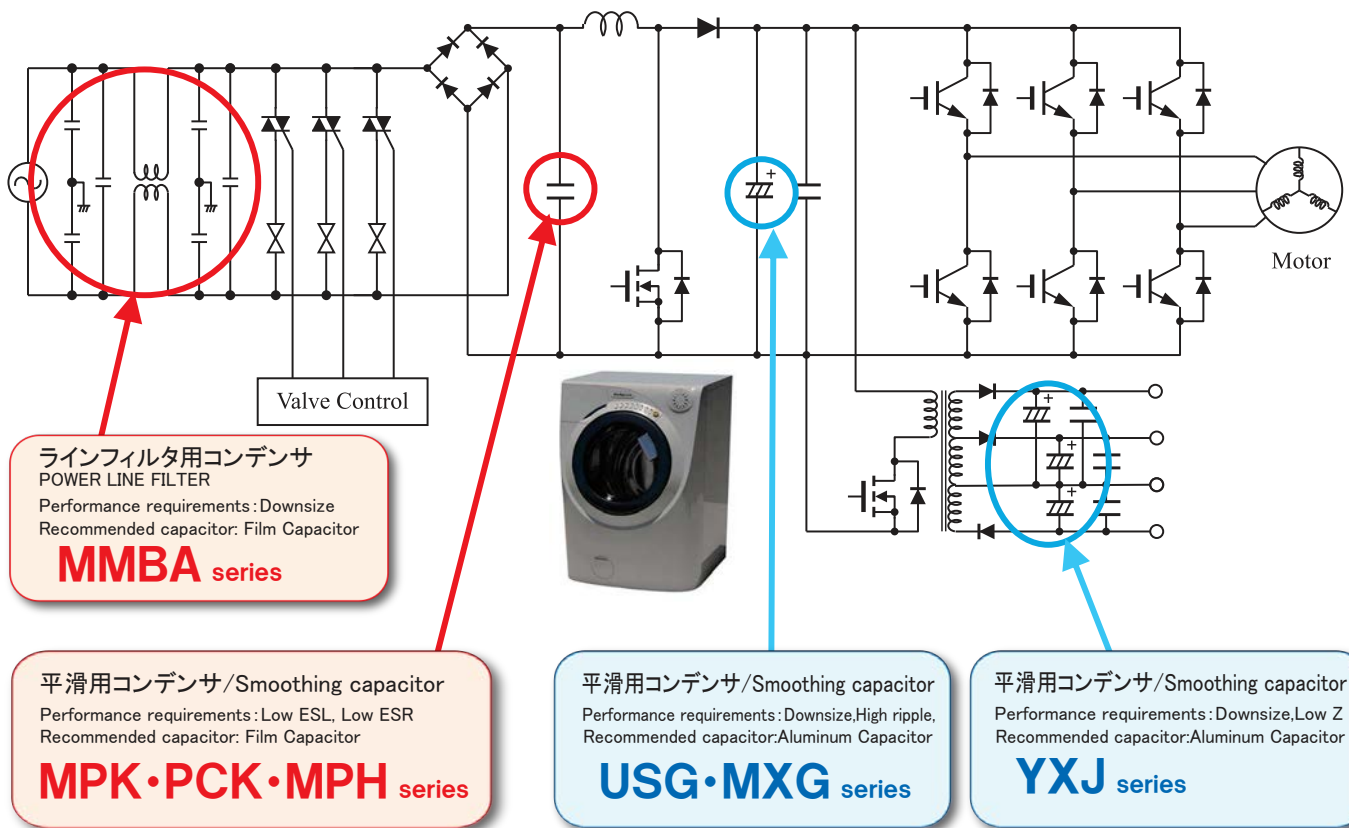


Aluminum Capacitors
小形化, 低ESR品, SMD

TPV series

Temp./Life: 105℃/2,000hours
Volt./Cap.Range : 6.3~50Vdc/47~2,200 μF





Washing Machine

Aluminum Capacitors 小形化, 長寿命, 低インピーダンス品

YXJ series

Temp./Life : 105℃/4,000~10,000hours
Volt./Cap.Range: 6.3~100Vdc/1~15,000 μF



Film Capacitors

MPH series

Temp.Range: -40~+105℃
Volt./Cap.Range: 100~800Vdc/0.047~22 μF

PCK series

Temp.Range: -40~+105℃ (85℃)
Volt./Cap.Range: 450~2,000Vdc/0.01~33 μF

MPK series

Temp.Range: -40~+105℃ (85℃)
Volt./Cap.Range: 450~800Vdc/0.1~4.7 μF

Aluminum Capacitors 小形化品

MXG series

Temp./Life: 105℃/3,000hours
Volt./Cap.Range: 10~500Vdc/39~68,000 μF

USG series

Temp./Life: 85℃/3,000hours
Volt./Cap.Range: 10~450Vdc/68~82,000 μF



Film Capacitors

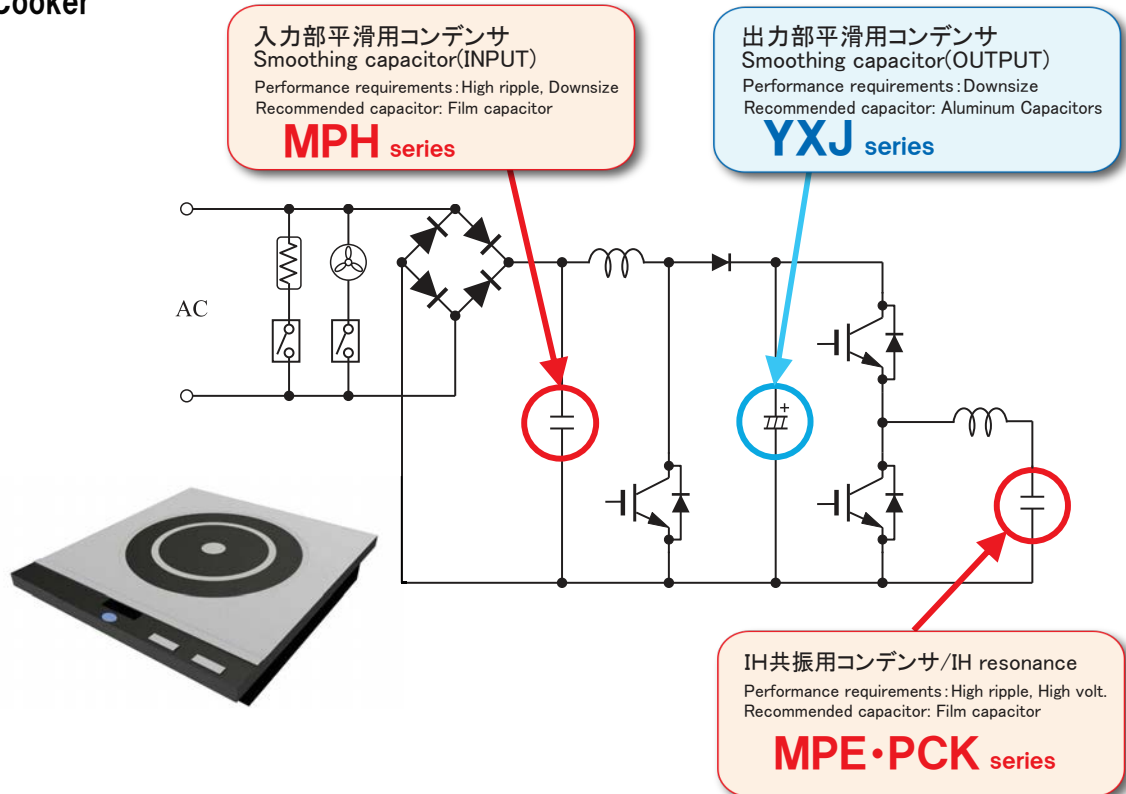
小形化 ACライン雑音防止用

MMBA series

Temp.Range: -40~+85℃
Volt.Range: 125, 250Vac
Cap.Range: 0.01~1 μF



Induction Cooker



Induction Cooker

Film Capacitors 小形化, 大電流品

MPH series

Temp.Range: $-40 \sim +105^{\circ}\text{C}$
Volt.Range: $100 \sim 800\text{Vdc}$
Cap.Range: $0.047 \sim 22 \mu\text{F}$



Film Capacitors コロナ放電特性改善品

MPE series

Temp.Range: $-40 \sim +105^{\circ}\text{C}$
Volt.Range: $800\text{Vdc}/250\text{Vac}$, $1,250\text{Vdc}/400\text{Vac}$
 $1,600\text{Vdc}/700\text{Vac}$
Cap.Range: $0.001 \sim 0.56 \mu\text{F}$



Aluminum Capacitors 小形化, 長寿命, 低インピーダンス品

YXJ series

Temp./Life: $105^{\circ}\text{C}/4,000 \sim 10,000\text{hours}$
Volt./Cap.Range: $6.3 \sim 100\text{Vdc}/1 \sim 15,000 \mu\text{F}$



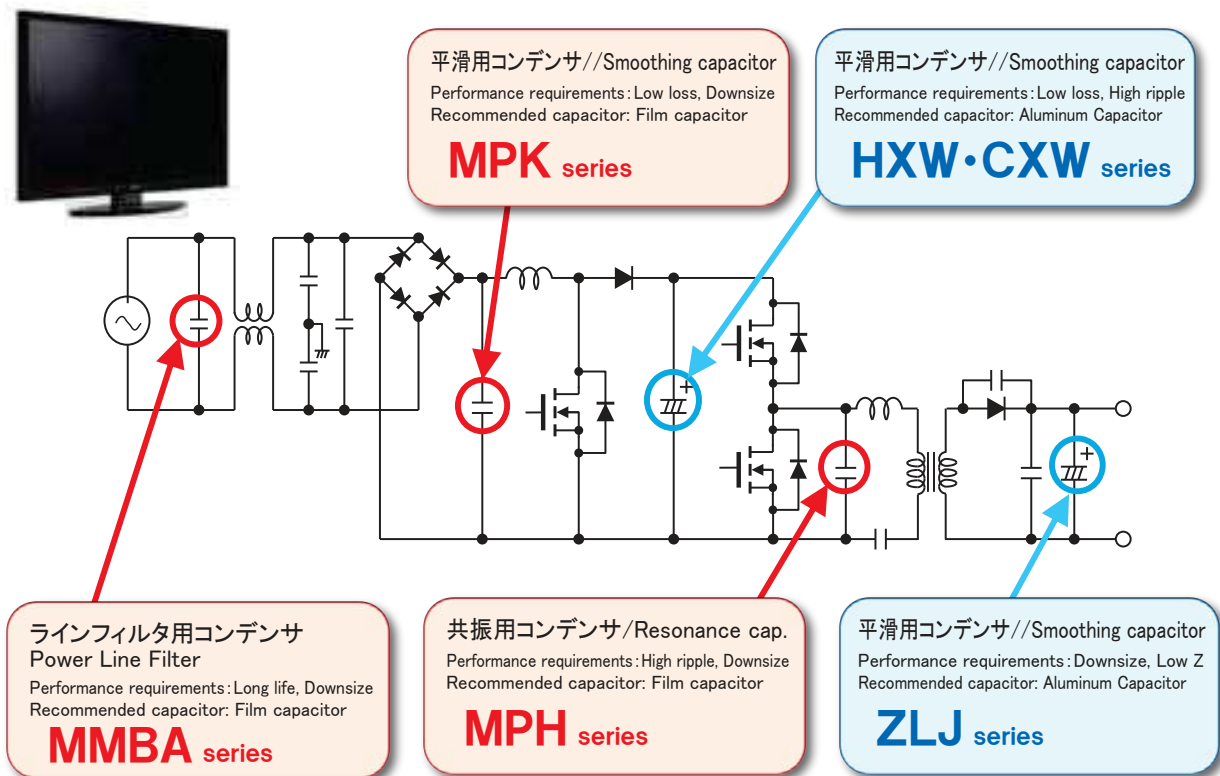
Film Capacitors 小形化, 大電流品

PCK series

Temp.Range: $-40 \sim +105^{\circ}\text{C}$ (85°C)
Volt.Range: $450 \sim 2,000\text{Vdc}$
Cap.Range: $0.01 \sim 33 \mu\text{F}$



(1) 電源回路部 Power Supply Circuit



Flat Panel Display TV

Film Capacitors

小形化, ACライン雑音防止用 MMBA series

Temp.Range : -40~+85℃
Volt./Cap.Range: 125, 250Vac/0.01~1 μF



小形化品, 低うなり音 MPK series

Temp.Range : -40~+105℃ (+85℃)
Volt./Cap.Range: 450~800Vdc/0.1~4.7 μF

Film Capacitors

小形化, 大電流品 MPH series

Temp.Range: -40~+105℃
Volt.Range: 100~800Vdc
Cap.Range: 0.047~22 μF



Aluminum Capacitors 超小形化品, 長L品 HXW series

Temp./Life : 105℃/2,000~3,000hours
Volt./Cap.Range: 400~500Vdc/22~270 μF



CXW series

Temp./Life : 105℃/5,000hours
Volt./Cap.Range: 180~500Vdc/10~680 μF

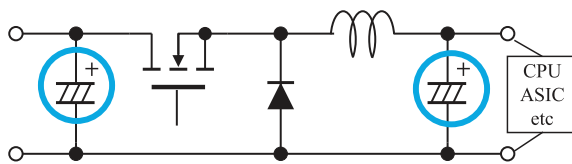
Aluminum Capacitors

小形, 低Z, 高リプル電流, 長寿命品 ZLJ series

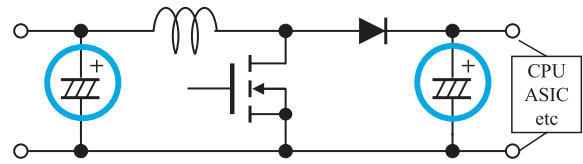
Temp./Life : 105℃/6,000~10,000hours
Volt./Cap.Range: 6.3~120Vdc/8.2~8,200 μF



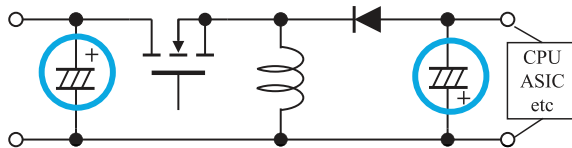
〔 降圧チョッパ回路 〕 Buck Converter



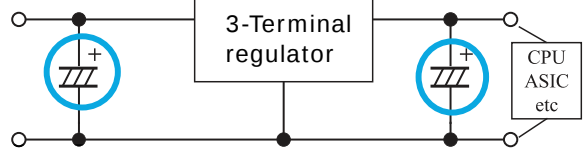
〔 昇圧チョッパ回路 〕 Boost Converter



〔 反転チョッパ回路 〕 Buck-boost Converter



〔 ドロップ回路 〕 Dropper circuit



平滑用コンデンサ/Smoothing capacitor

Performance requirements: High ripple, Low ESR, Downsized

Recommended capacitor:

Conductive Polymer Hybrid Type **PEV・PZE series**

Aluminum Capacitors (SMD) **TPV・TNV・TYV series**

Aluminum Capacitors (Lead wire) **ZLQ・ZLJ series**



DC/DC Converter

Conductive Polymer Hybrid Type
105℃, 低ESR, 高リップル, 高耐圧品
PZE series

Temp./Life: -55~+105℃/10,000hours
Volt./Cap.Range: 25~80Vdc/22~330 μF



Aluminum Capacitors
小形化, 高リップル, 低ESR品
TPV series

Temp./Life: 105℃/2,000hours
Volt./Cap.Range: 6.3~50Vdc/47~2,200 μF

TNV series

Temp./Life: 105℃/3,000~5,000hours
Volt./Cap.Range: 6.3~35Vdc/330~2,200 μF

TYV series

Temp./Life: 105℃/8,000hours
Volt./Cap.Range: 25,35Vdc/330~820 μF



Conductive Polymer Hybrid Type
105℃, 低ESR, 高リップル, 高耐圧品, SMD
PEV series

Temp./Life: -55~+105℃/10,000hours
Volt./Cap.Range: 25~80Vdc/10~330 μF



Aluminum Capacitors
小形化, 高リップル, 低インピーダンス品
ZLQ series

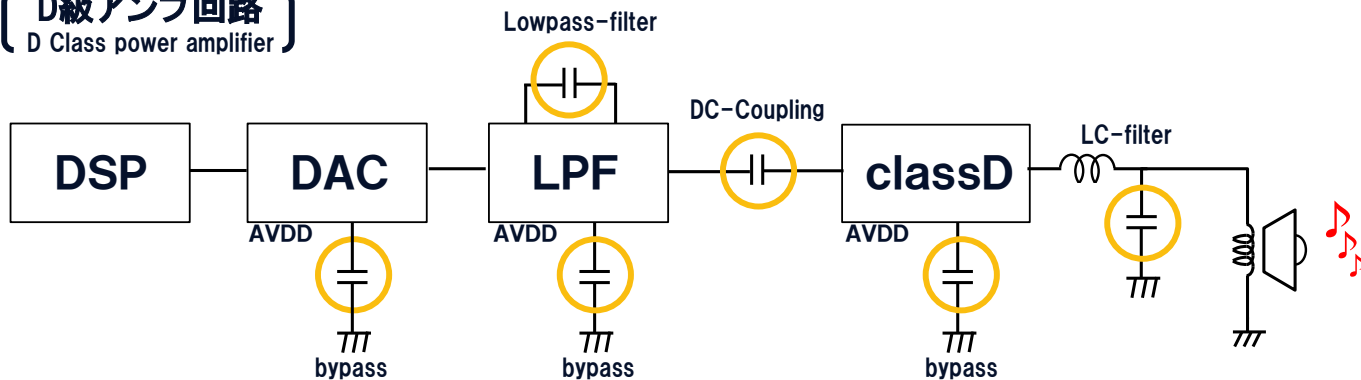
Temp./Life: 105℃/3,000~6,000hours
Volt./Cap.Range: 6.3~35Vdc/56~12,000 μF

ZLJ series

Temp./Life: 105℃/6,000~10,000hours
Volt./Cap.Range: 6.3~120Vdc/8.2~8,200 μF



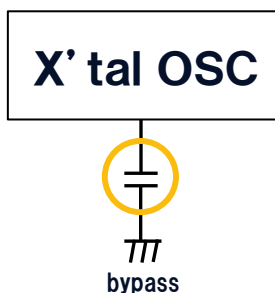
〔 D級アンプ回路 〕 D Class power amplifier



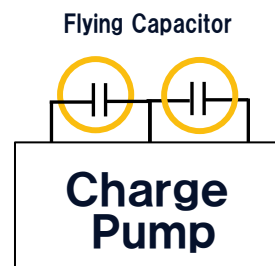
DCカップリングコンデンサ/DC coupling capacitor
Performance requirements: Downsize, Low ESR, High-quality sound
Recommended capacitor: Polymer Multilayer Capacitor

PML-CAP **MU・MS・NS** series

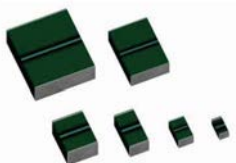
〔 X' tal OSC回路 〕 X'tal OSC



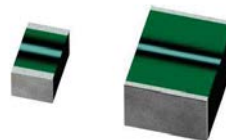
〔 チャージポンプ回路 〕 Charge Pump



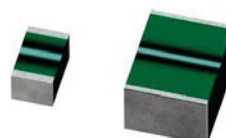
Polymer Multilayer Capacitors
高温度, 優れた温特, 低うなり音, 小形化品
MU series (PMLCAP)
Temp.Range: $-55 \sim +125^{\circ}\text{C}$
Volt./Cap.Range: $16 \sim 200\text{Vdc} / 0.0001 \sim 22 \mu\text{F}$



Polymer Multilayer Capacitors
85℃85%RH対応品
MS series (PMLCAP)
Temp.Range: $-55 \sim +125^{\circ}\text{C}$
Volt./Cap.Range: $10 \sim 50\text{Vdc} / 0.001 \sim 2.2 \mu\text{F}$



Polymer Multilayer Capacitors
60℃90%RH対応品
NS series (PMLCAP)
Temp.Range: $-55 \sim +125^{\circ}\text{C}$
Volt./Cap.Range: $16 \sim 63\text{Vdc} / 0.001 \sim 10 \mu\text{F}$





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TEL:03-5396-5001 FAX:03-5396-1190

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〒463-0072 愛知県名古屋市守山区金屋1-12-19
TEL:052-793-1210 FAX:052-791-1481

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