

Main Product for Automotive Application



Network in Vehicle

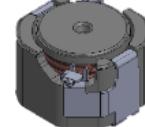
ACT45B/1210



Control System : CAN-bus, Flex-ray, etc.
Multimedia System : MOST, etc.

ECM/ECU

N-CLF

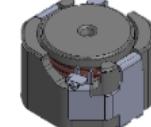


SPM



Lighting

N-CLF



EHR



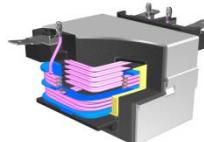
LED: Coil for Power Supplies
DC/DC Converter : Transformer

EV/HEV

Power Trans



DC/DC Converter : Main TRF

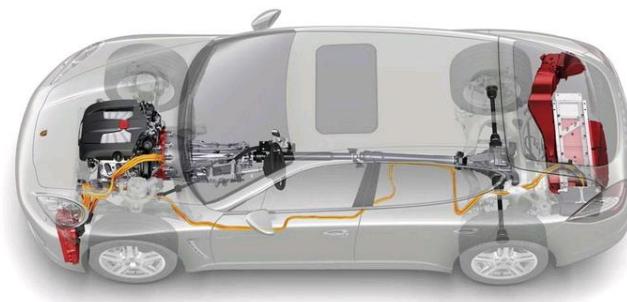


OBC : Main Transformer

IGBT TRF



IGBT Gate Drive : Drive TRF



Sensor System

TPL



3Dcoil



LF Antenna



TPMS(Tire Pressure Monitoring System)/
Smart Key/Immobilizer

EP6



Parking Sensor

ADAS

TFM



VLS-HBX



ADAS: ADAS ECU, SRR, Laser R
Image sensing camera, View camera

Car Multi-media System

VLS-EX

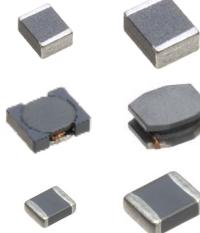


MLI



Entertainment : Car Navigation System
Car Audio System
Wireless Communication : GPS, ITS

Power circuit (PMIC)



Thin film metal type coil

Shield/Semi-shield Wound type coil

Multilayer type coil

TFM, VLS, VLF, MLP series

- 0603inch(1608) -
- Low loss

Base band circuit



Ferrite chip beads /power beads

MMZ, MPZ series

- 01005inch(0402) -
- Select from 8 material

Interface(MIPI,USB2.0/3.0,HML,HDMI,etc.)



Thin film・Multilayer type CMF

TCM, MCZ, TCE series

- 0202inchi(0605) -
- include ESD function

RF circuit / Tuner block



Multilayer type RF coil

MLG, MLK, MHQ series

- 01005inch(0402) -
- Same Q level with wound type

Near Field Communication



Multilayer type ferrite coil

MLF1005 series

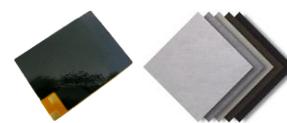
- 0402inch(1005) -
- Downsize



ESD Suppressor

TES0603 series

- 0201inch(0603) -



Antenna module Noise Suppression sheet

Main Product for Home Appliance & Health



Power management

- DC-DC converter, AC-DC converter
Transformer
Full automatic winding
- DC-DC converter, Filter, Class-D amp



Power inductor

Wire-wound/Full-Shield/Ferrite



(CLF-NIT)

Wire-wound/Full-Shield/Metal



(SPM)

Wire-wound/Semi-Shield/Ferrite



(VLS-EX) (VLS-CX)

Wire-wound/Semi-shield/Metal



(VLS-HBX)

Thin film/Metal



Multilayer/Ferrite

(TFM) (MLP)

RF inductor (MHQ,MLG,MLK)



Signal inductor

Multi-layer *Wire-wound*



(MLF) (NL,NLC,NLCV)

Magnetic sheet (IFL04,IBF15)



Balun (ATB)



Filter for wired interface

CMF

Thin-film (TCM)



(TCM)

Multi-layer (MCZ)



(MCZ)

Wire-wound (ACM)



(ACM)

Pulse transformer (ALT)

Full automatic winding



3-terminal filter (MEA)



General use

•EMC

Beads (MMZ,MPZ)



CMF (ZJYS)



