

# Introduction

## TOMITA Coils/Transformers

### ○ Custom Coils/Transformers design & Production

Design and produce C/T with our ferrite cores following the customer's requirements.

### ○ Quality and efficient C/T with ferrite technology

### ○ Wide variety of ferrite materials and high end winding technology

Designing to delivery, Tomita can meet the customer's needs and offers the short lead time.

# Tomita C/T

## 1. Design

Expertise in designing the transformers for power supply, choke, filter, converter, transmission, sensor, planer, etc.

For power supply, mainly designing 1W-9W level (core size EE-5 to EE-30) transformers. Focus on all types of circuit and smaller size.

Higher efficiency with Tomita's low power loss ferrite cores.

Offering various type of ferrite materials to meet the customer's requirements.

## 2. Using Tomita Ferrite Cores

Various type of shape and dimension

Short lead time (1wk for mold production)

Selection of ferrite materials

### 3. Winding Technology

- Regular winding, multi layer,space, edegewise, etc

### 4. Safety Standard

- UL certified and other standards



**Faster than competitors**

### 5. Lead Time

- Samples: 3 days (if stock available)  
2-3wks (if new mold necessary)  
Within 3 days (spec change)
- Production: Ramp up in 1 and half months (negotiable)

## 6. Quality Assurance

- Verified pre-production in headquarter factory, mass-production in overseas factory
- Ramp up managed by production managers.  
Quality control by well-trained local staff.

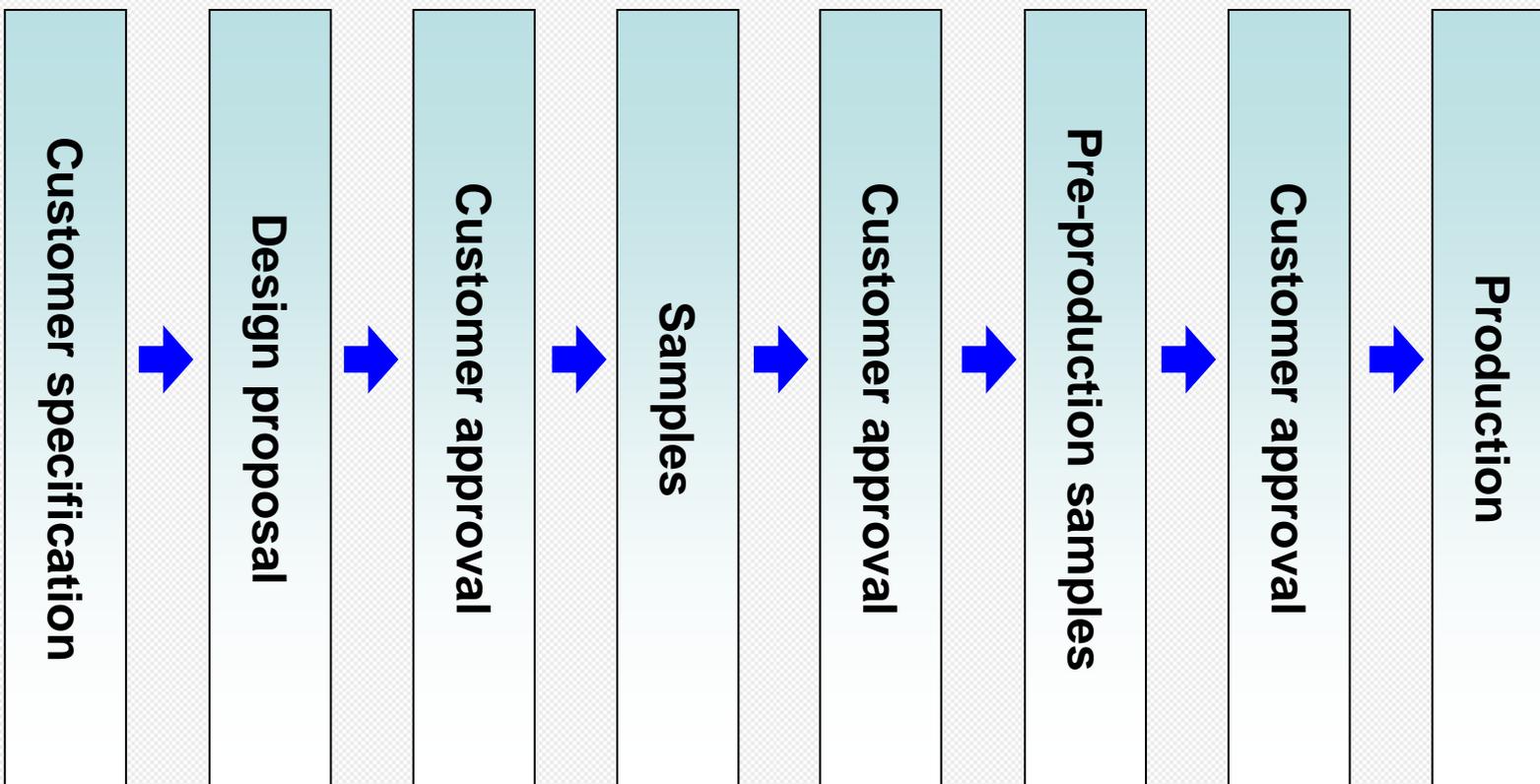
## 7. Cost

- High-mix, low-volume can be managed by overseas production

## 8. Service and Delivery

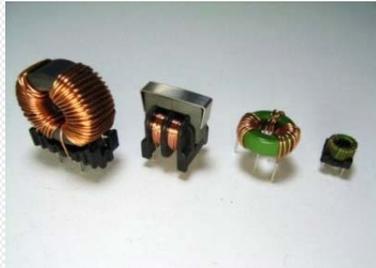
- Delivery location and term can be negotiable
- JPY, USD, RMB

# TOMITA C/T Design/Production Process



# Product Design

## Forward converter type Switching power supply C/T



Common mode choke coil  
EMI/RFI filter



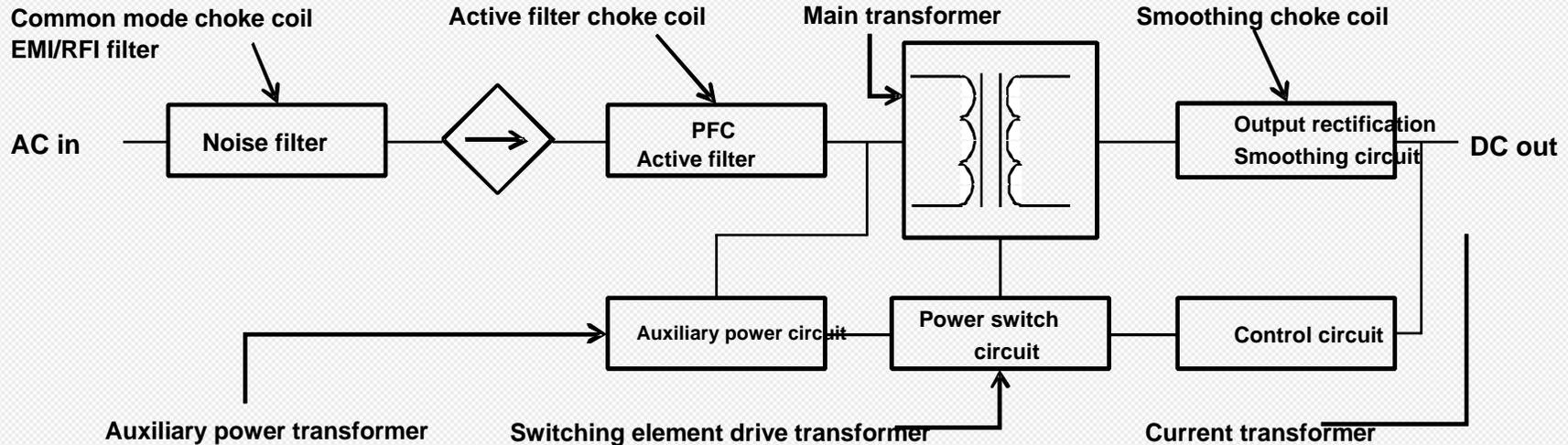
Active filter choke coil



Main transformer



Smoothing choke coil



Auxiliary power transformer



Switching element drive transformer



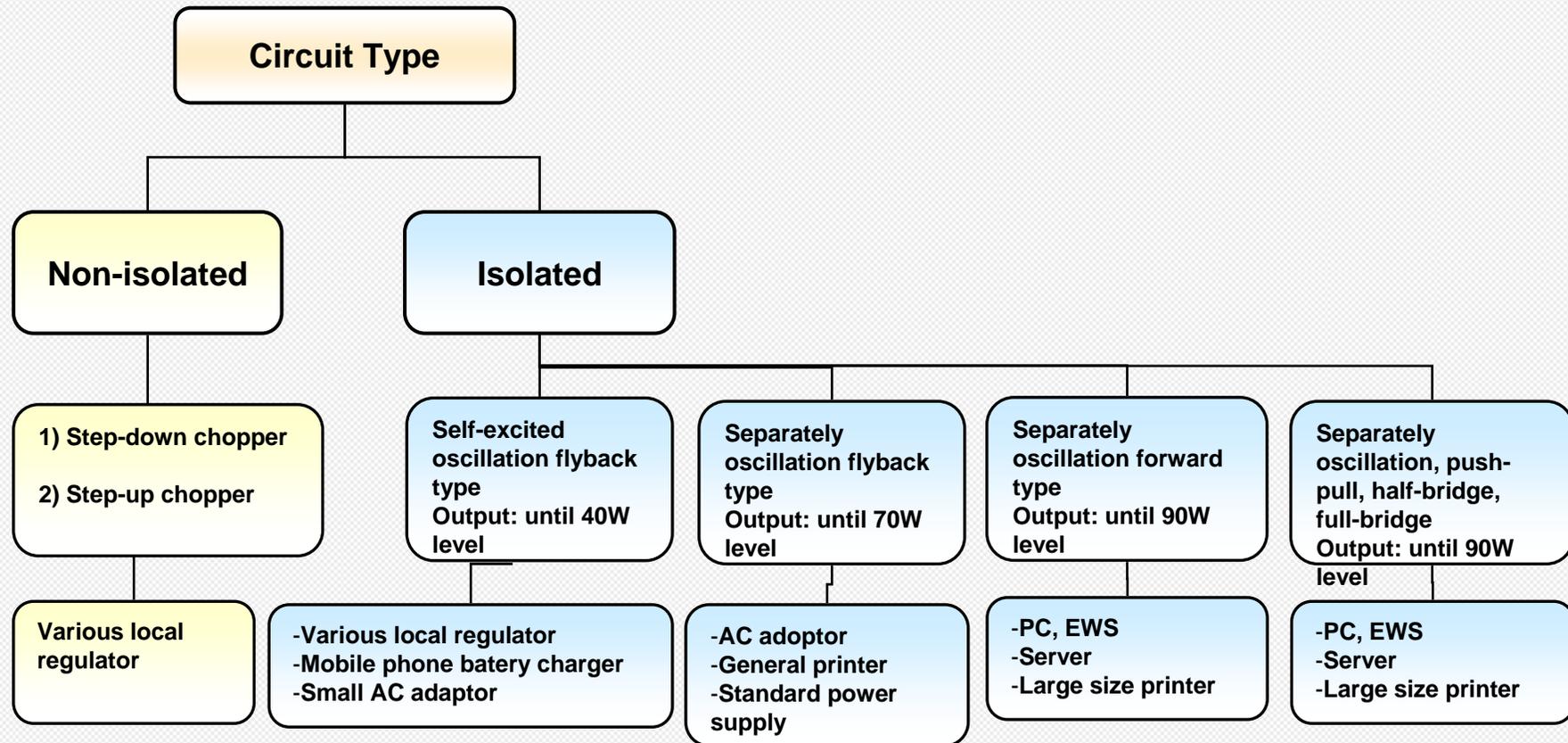
Current transformer

## Transformer

- Flyback transformer
- Forward transformer
- Others
- Pulse transformer
- Current transformer

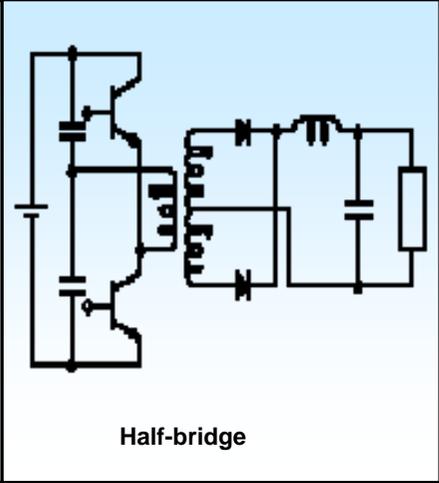
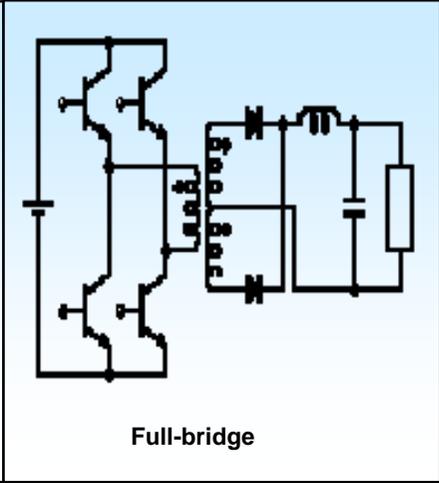
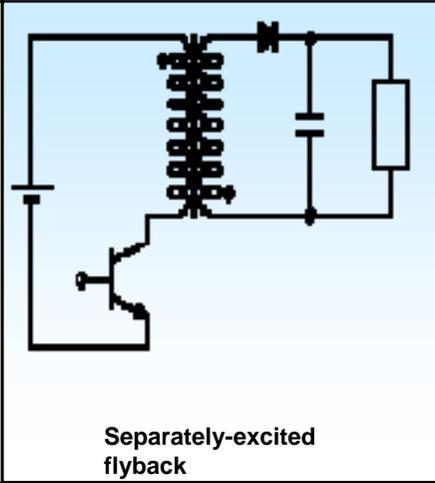
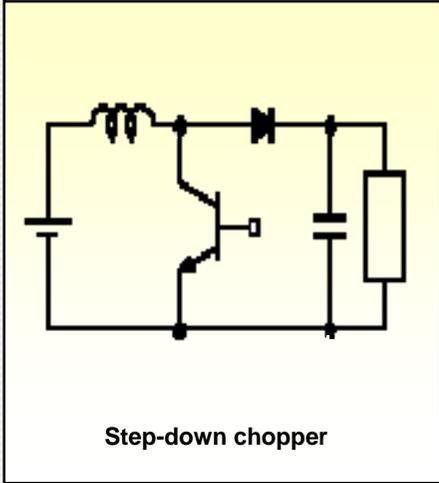
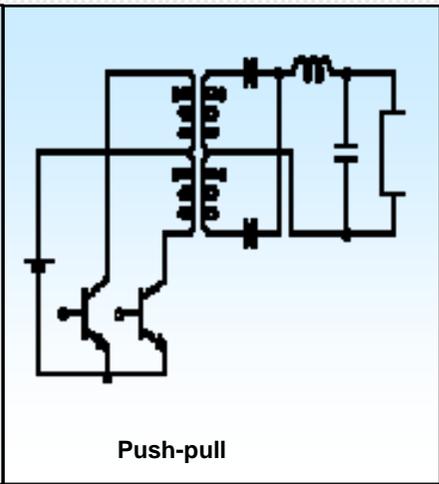
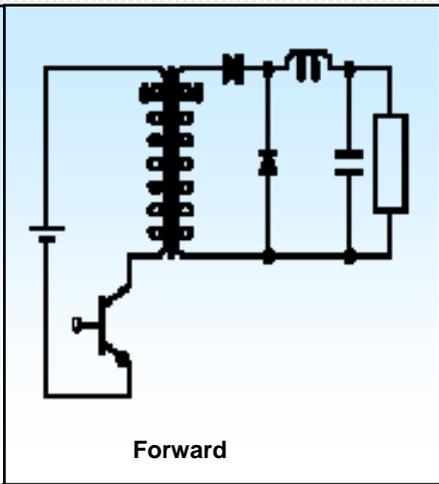
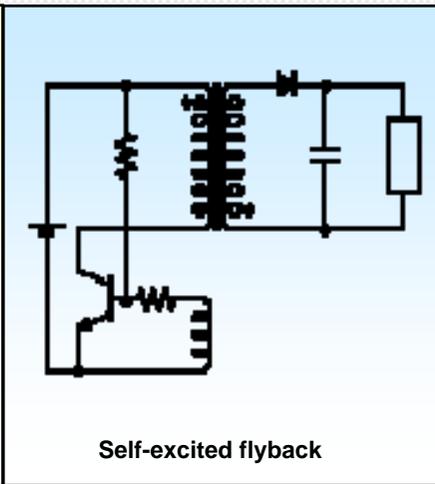
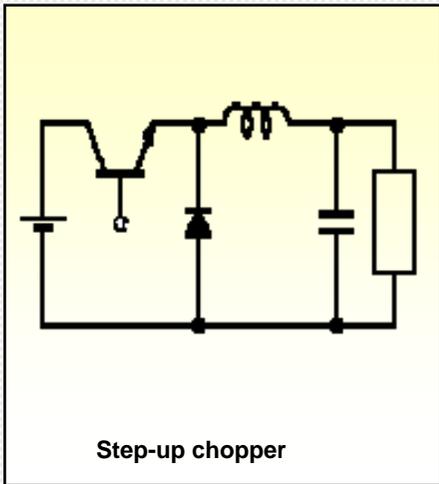
## Coil

- Common mode choke coil
- Normal mode choke coil
- PFC choke coil
- Others



Non-isolated

Isolated

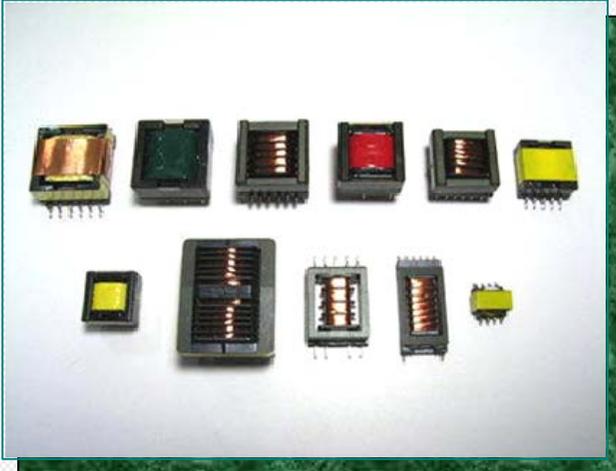


# Regular switching power transformer



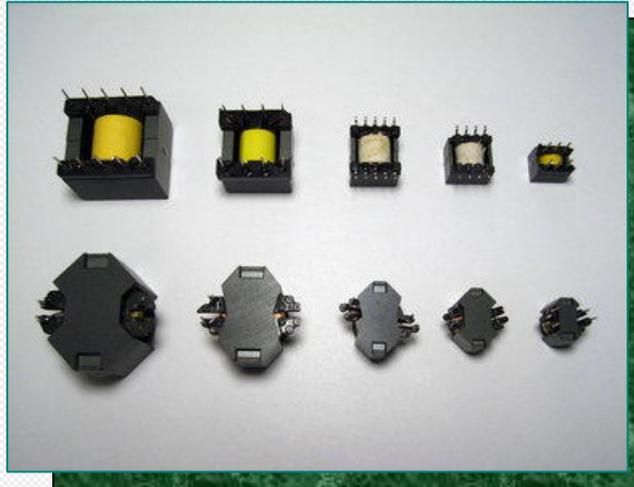
<b>Features</b>	<ul style="list-style-type: none"> <li>● Miniaturized by using low power loss, high magnetic flux density, high permeability ferrite core</li> <li>● High efficiency</li> <li>● RoHS</li> </ul>
<b>App.</b>	<ul style="list-style-type: none"> <li>● Applied to factory appliance to home alliance projects. Widely used for switching transformer.</li> </ul>
<b>Shape, Dimension</b>	<p>◎ E series (EE-5~33) (EPC-10~25)</p> <p>● EPC-10</p> <p>● EE-33</p> <p>◎ EI series (EI-12.5~28)</p> <p>● EI-12.5</p> <p>● EI-28</p>

# Low back type switching power transformer



<b>Features</b>	<ul style="list-style-type: none"> <li>● Miniaturized by using low power loss, high magnetic flux density, high permeability ferrite core</li> <li>● High efficiency</li> <li>● Automatic implementation</li> <li>● Small/low-back type</li> <li>● RoHS</li> </ul>
<b>App.</b>	<ul style="list-style-type: none"> <li>● Switching power supply for low-back products such as audio, LCD and PDP</li> </ul>
<b>Shape, Dimension</b>	<p>◎ E series (EFD-12~25) (EER-7.5~25)</p> <p>● EFD-15      ● EFD-25</p> <p>● EPC series (EPC-10~25)</p> <p>● EPC-10      ● EPC-25</p>

# Various communication transformers



## Features

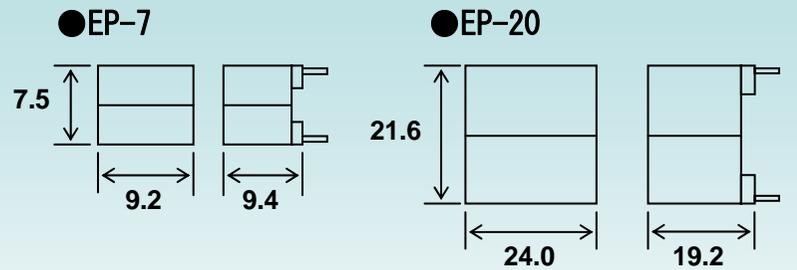
- High speed communication
- Wide frequency
- RoHS

## App.

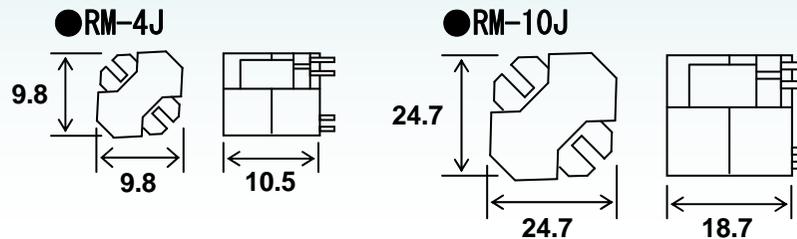
- Communication tools
- High speed modem

## Shape, Dimension

### ◎ EP series (EP-7 ~ 20)



### ◎ RM series (RM-4J ~ 10J)



# Common mode choke coils



Features

- Broadband
- High inductance
- RoHS

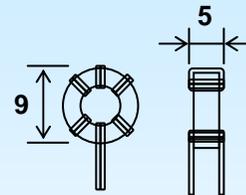
App.

- For various types of power supply, noise remover for power and signal

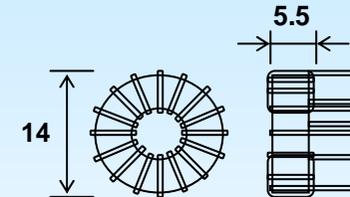
Shape, Dimension

◎ TR series (TR-6X3X2~31X19X13A)

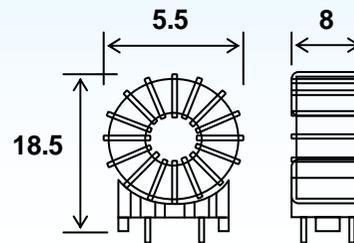
● TR-6X3X2



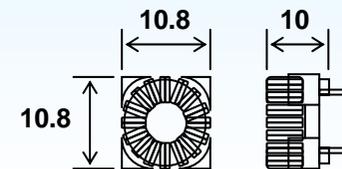
● TR-16X6X4



● TR-12X6X4



● TR-9X5X5



# Line filter



## Features

- High inductance
- Superior high frequency attenuation
- Small size, light weight
- Broadband
- RoHS

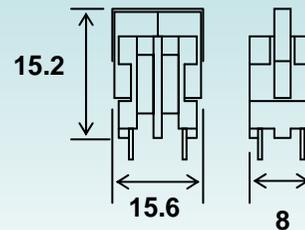
## App.

- Noise prevention for conduction noise from low to high freq, around the power area of electronics

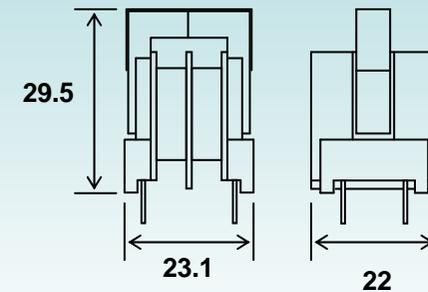
## Shape, Dimension

◎ UU series (UU-9.8~18)

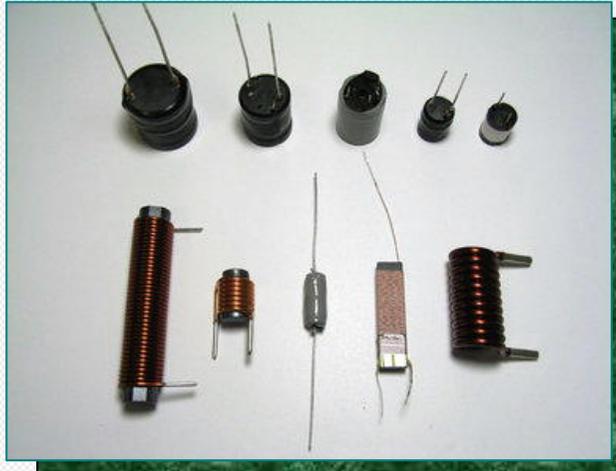
● UU-9.8



● UU-18X21



# Choke coils



## Features

- High current model using High- $\mu$ , High-Bm ferrite cores
- Wide area inductance
- Magnetic shield type
- RoHS

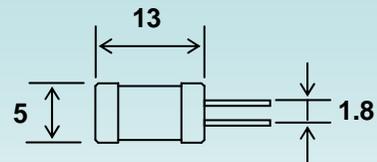
## App.

- Choke coils for power supply

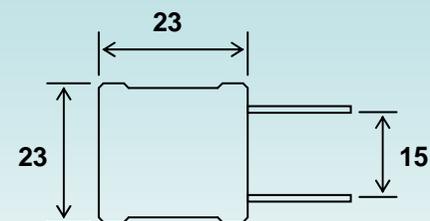
## Shape, Dimension

### ◎ DR series (DRW-4X6~20X20)

#### ● DRW-4X6

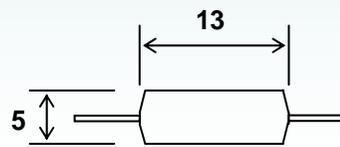


#### ● DRW-20X20

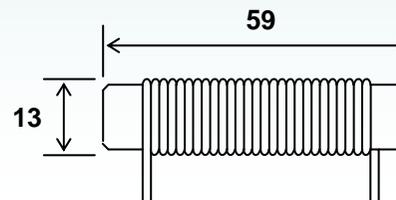


### ◎ R series (RWW3X8~RA12X59)

#### ● RWW-3X8



#### ● RA-12X59



# Sensor coils



**Features**

- Using high Q, stable temperature characteristic ferrite cores
- Longer sensing distance
- RoHS

**App.**

- Widely used for sensors for industrial machines

**Shape, Dimension**

◎ PC series (PC-5.65X1.65~36X11)

