Corcom
EMI/RFI Filter Product Overview

TE Connectivity offers over 300 solutions for EMI/RFI problems associated with susceptibility, as well as compliance with international emissions standards. Corcom filters are available in a wide range of single and 3-phase designs as well as IEC inlet and power entry modules which can combine several functions to reduce cost, space and labor. Solutions are also available for DC applications and applications requiring extremely high performance with feedthrough filters and capacitors for a wide range of applications.
## FILTER TYPE

<table>
<thead>
<tr>
<th>SERIES</th>
<th>B Series</th>
<th>K Series</th>
<th>DK Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILTER TYPE</td>
<td>POWER LINE FILTERS</td>
<td>PERFORMANCE</td>
<td>MECHANICAL PARAMETERS</td>
</tr>
<tr>
<td><strong>Approvals</strong></td>
<td>UL / CSA / VDE</td>
<td>UL / CSA / VDE</td>
<td>UL / CSA / VDE</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>General purpose RFI Filters for high impedance load / low current</td>
<td>General purpose RFI power line filters for high impedance loads</td>
<td>Enhanced differential mode performance K Series RFI line filters</td>
</tr>
<tr>
<td></td>
<td>• General purpose</td>
<td>• Well suited to applications where pulsed, continuous and/or intermittent RFI interference is present</td>
<td>• Higher performance line to line attenuation than the K Series</td>
</tr>
<tr>
<td></td>
<td>• Wide variety of termination options</td>
<td>• EK models meet the very low leakage current requirements for VDE portable equipment and non-patient care medical equipment</td>
<td>• E version meets the very low leakage current requirements for VDE portable equipment and non-patient care medical equipment</td>
</tr>
<tr>
<td></td>
<td>• Meets low leakage current requirements of VDE portable equipment and non-patient medical equipment</td>
<td>• Available with ground line inductor (choke)</td>
<td>• V version features same high performance with more cost-effective design</td>
</tr>
<tr>
<td><strong>Electrical Setup</strong></td>
<td>Single stage</td>
<td>Single stage</td>
<td>Dual stage</td>
</tr>
<tr>
<td><strong>Mounting features</strong></td>
<td>Screw mounting</td>
<td>Screw mounting (flange or panel)</td>
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<tr>
<td><strong>Termination inputs</strong></td>
<td>.25 [6.3] spade terminals, 8-32 terminal bolt &amp; nut or wire leads</td>
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## ELECTRICAL PARAMETERS

<table>
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<tr>
<th>Max. voltage</th>
<th>250 VAC</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Current Ratings</td>
<td>1, 2, 3, 5, 10, 20 or 30A</td>
<td>1, 2, 3, 5, 10, 20, 30, 40 or 60A</td>
<td>1, 3, 6, 10 or 20A</td>
</tr>
<tr>
<td>Leakage current each Line to Ground @ 120VAC 60Hz / 250VAC 50Hz</td>
<td>VB Models: .4 mA / .7 mA</td>
<td>VK Models: .5 mA / 1.0 mA</td>
<td>VDK Models: .4 mA / .7 mA</td>
</tr>
<tr>
<td></td>
<td>EB Models: .21 mA / .36 mA</td>
<td>EK Models: .21 mA / .36 mA</td>
<td>EDK Models: .22 mA / .38 mA</td>
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## MECHANICAL PARAMETERS

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</tbody>
</table>

## TYPICAL APPLICATIONS

- Wide band RFI suppression for applications requiring low attenuation including:
  - HVAC
  - TV / Audio / Video
  - Computing & accessories
  - Home appliances
  - Medical equipment
  - Battery charging systems
  - Exercise equipment
- Universal filter for applications requiring mid-range attenuation including:
  - TV / Audio / Video
  - Computing & accessories
  - Home appliances
  - Medical equipment
  - Gaming machines
  - Exercise equipment
  - Test measurement equipment
- Universal filter for applications requiring improved attenuation including:
  - TV / Audio / Video
  - Computing & accessories
  - Home appliances
  - Medical equipment
  - Gaming machines
  - Exercise equipment

[corcom.com](http://corcom.com)
## Two-stage general purpose RFI power line filter
- Dual T section RFI filter provides premium performance
- Well suited for low impedance loads where noisy RFI environments are present
- Controls pulsed, continuous and/or intermittent interference
- ER model offers low leakage current without deterioration of insertion loss

### Specifications
- **250 VAC**
- **1, 2, 3, 5, 10 or 20A**
- **VR Models:** 0.4 mA / 0.7 mA
- **ER Models:** 0.21 mA / 0.36 mA

### Mounting Options
- Screw mounting (flange or panel)
- PC board pins

### Available Models
- **XR**
- **ER**

### Applications
- Motors
- Semiconductor actuators
- Home appliances
- Gaming machines
- Exercise equipment
- Security systems
- Industrial equipment & controls

---

## PC board mountable general purpose RFI filters
- General purpose
- Low leakage current
- Cost-effective
- Compact size
- EDP model features enhanced differential mode performance
- EBP model features compact size (less than 1” square)

### Specifications
- **250 VAC**
- **1, 2, 3, 5, 10 or 20A**
- **VR Models:** .22 mA / .38 mA
- **ER Models:** .13 mA / .21 mA

### Mounting Options
- Screw-in mounting stud
- PCB pins

### Available Models
- **XR**
- **EDP/EOP**
- **EBP**

### Applications
- Switching Power Supplies
- Industrial single phase applications

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## High performance, low cost filter ideal for appliance equipment
- Cost effective
- Tubular design
- WGD, WGE and WGF versions designed to comply with leakage current requirements for appliances which may be easily moved from one place to another
- Available in a variety of styles

### Specifications
- **250 VAC**
- **16A**
- **A, B & C Models:** .76 mA / 1.27 mA
- **D, E & F Models:** .10 mA / .20 mA

### Mounting Options
- Screw mount or PCB board pins

### Available Models
- **X**
- **Y**
- **Z**
- **Medical version available in the HZ Series**

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## Universal filter for applications with low impedance loads including:
- Motors
- Semiconductor actuators
- Home appliances
- Gaming machines
- Exercise equipment
- Security systems
- Industrial equipment & controls

---

## Specially designed for the white goods / appliance market. Offers wide band RFI suppression for many applications including:
- Washing machines / dryers
- Dishwashers
- Refrigerators & freezers
- Coffee Machines
- Hand held appliances & tools
- Ovens & ranges

### Specifications
- **250 VAC**
- **1, 2, 3, 4 or 6A**
- **.3 mA / .5 mA**

### Mounting Options
- Screw mount or PC board pins

### Available Models
- **XR**
- **Y**
- **Z**
- **Medical version available in the HZ Series**

---

## Chassis or PC Board Mountable Power Line Filters for Emission Control
- Compact chassis or PC board mountable
- Three levels of performance
- Complete filtering solution in minimal size
- X Series for FCC Part 15J, Class B
- Y Series for EN55022, Level A
- Z Series for EN55022, Level B

### Specifications
- **250 VAC**
- **1, 2, 3, 4 or 6A**
- **.3 mA / .5 mA**

### Mounting Options
- Screw mount or PC board pins

### Available Models
- **XR**
- **Y**
- **Z**
- **Medical version available in the HZ Series**

---

## Corcom Filter Products
- **TE Connectivity**
- **Corcom Filter Products**

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**corcom.com**
### FILTER TYPE

<table>
<thead>
<tr>
<th>SERIES</th>
<th>S, V &amp; W Series</th>
<th>G &amp; N Series</th>
<th>SB Series</th>
</tr>
</thead>
</table>

### PERFORMANCE

<table>
<thead>
<tr>
<th>Approvals</th>
<th>UL / CSA / VDE</th>
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<table>
<thead>
<tr>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multipurpose Power Line RFI Filter for Emission Control</td>
</tr>
<tr>
<td>High Performance RFI Filters for Switching Power Supplies For increased filtering requirements</td>
</tr>
<tr>
<td>High Performance B Series RFI Line Filters</td>
</tr>
</tbody>
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### ELECTRICAL PARAMETERS

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<thead>
<tr>
<th>Max. voltage</th>
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<table>
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<tr>
<th>Current Ratings</th>
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<tbody>
<tr>
<td>3, 6, 10, 20 &amp; 60A (60A S Series only)</td>
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<tr>
<th>Leakage current each Line to Ground @ 120VAC 60Hz / 250VAC 50Hz</th>
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<tbody>
<tr>
<td>.4 mA / .7 mA (S Series 3-10A)</td>
</tr>
<tr>
<td>.75 mA / 1.25 mA (S Series 60A)</td>
</tr>
<tr>
<td>.5 mA / .82 mA (V &amp; W Series)</td>
</tr>
<tr>
<td>.07 mA / .13 mA (MV Series)</td>
</tr>
<tr>
<td>.3 mA / .5 mA (EG models)</td>
</tr>
<tr>
<td>1.2 mA / 2.0 mA (VG &amp; N models)</td>
</tr>
<tr>
<td>.75 mA / 1.25 mA (VSB models)</td>
</tr>
<tr>
<td>.22 mA / .36 mA (ESB models)</td>
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### MECHANICAL PARAMETERS

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### TYPICAL APPLICATIONS

- Multipurpose power line RFI filter for emission control and high noise industrial environments and applications that require compliance with FCC Part 15, Subpart J and EN55022, Level A, down to 150kHz including:  
  - Consumer electronics  
  - Small machine tools  
  - Food service equipment  
  - Measurement & Instrumentation

- Specifically designed for most digital electronic equipment requiring a high range of symmetric and asymmetric attenuation including:  
  - Switching power supplies  
  - Motor drives  
  - Small machine tools  
  - Industrial single-phase applications

- Wide band RFI suppression for applications requiring enhanced performance including:  
  - TV / Audio / Video  
  - Computing & accessories  
  - Home appliances  
  - Medical equipment  
  - Gaming machines  
  - Exercise equipment
**POWER LINE FILTERS (Continued)**

<table>
<thead>
<tr>
<th>SK Series</th>
<th>RK Series</th>
<th>EMC Series</th>
<th>IK Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://corcom.com" alt="Image" /></td>
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<td><img src="https://corcom.com" alt="Image" /></td>
</tr>
</tbody>
</table>

**High Performance K Series RFI Line Filters for SMPS Emission Control**
- Designed to reduce conducted noise to acceptable limits for equipment that must comply with FCC / EN specifications
- Utilizes significantly higher element values than the general purpose K Series
- ESK6C and VSK6C incorporate separate ground circuit inductor

**High Performance Compact Power Line Filter**
- Compact
- Single stage
- Significant differential mode performance
- Suitable for industrial machinery
- Low input leakage current makes it suitable for portable equipment

**Compact and Cost-effective Dual Stage RFI Power Line Filters**
- Compact dual stage filter series
- Current rating up to 30A
- High differential mode attenuation in the lower frequency range
- High common mode performance
- Ideal for switching mode power supplies

**Single and 2-phase RFI Filters for Industrial Applications**
- Excellent performance for applications with high interference levels
- Designed for single or two-phase applications
- Available touch safe terminals provide easy connections and prevent inadvertent contact

<table>
<thead>
<tr>
<th>250 VAC</th>
<th>250 VAC</th>
<th>250 VAC</th>
<th>500 VAC MAX. Line to Ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 6, 10, 20, 30 &amp; 40A</td>
<td>3, 6, 10, 15 &amp; 20A</td>
<td>3, 6, 10, 15, 20 &amp; 30A</td>
<td>1, 6, 16, 35, 50 &amp; 80A</td>
</tr>
</tbody>
</table>

| .4 mA / .7 mA (3-10A VSK models) | .21 mA / .36 mA (3-10A ESK models) | .75 mA / 1.26 mA (3-10A VSK models) | .3 mA / .5 mA (3-10A ESK models) |
| .16 mA / .26 mA | .21 mA / .43 mA (3-10A models) | .73 mA / 1.52 mA (15-30A models) | .06 mA / 1.2 mA* (1 & 6A models) |
| .21 mA / .36 mA | .75 mA / 1.52 mA | 5.2 mA / 9.9 mA* (80A model) | 1.7 mA / 3.2 mA* (16 - 50A models) |

* 1A @ 289 VAC, 16-80A @ 277 VAC 50Hz

**Universal filter for consumer electronic applications requiring a premium range of attenuation including:**
- TV / Audio / Video
- Computing & accessories
- Home appliances
- Medical equipment
- Industrial equipment & controls
- Exercise equipment

**Wide band RFI suppression for applications requiring high attenuation level including:**
- Consumer electronics
- Industrial machinery equipment
- Small machine tools
- Home appliances
- Power supplies

**Wide band RFI suppression for applications requiring high attenuation levels including:**
- Consumer electronics
- Single phase industrial equipment
- Inverters
- Switching power supplies

**Wide band RFI filter for small to medium sized industrial equipment, power converters and variable speed motors. Provides suppression of industrial 2-phase applications with high RFI emissions including:**
- Transportation vehicles
- Site applications
- Small construction machinery

<table>
<thead>
<tr>
<th>Screw mounting (flange or panel)</th>
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**Wide Range Performance**

- UL / CSA / VDE

**Compact and Cost-effective Dual Stage RFI Power Line Filters**
- Dual stage (6-80A models)
- Dual stage + ground choke (1A only)
FILTER TYPE | POWER LINE FILTERS (Continued) |
--- | --- | --- |
**SERIES** | Q Series | FC Series | EP & VP Series |

**PERFORMANCE**

<table>
<thead>
<tr>
<th>Approvals</th>
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</thead>
<tbody>
<tr>
<td>Features</td>
<td>Highest Performance RFI Filters for Switching Power Supplies</td>
<td>Single Phase Power Line Filter for Frequency Converters</td>
<td>Dual Stage RFI Power Line Filters for Switching Mode Power Supplies</td>
</tr>
<tr>
<td></td>
<td>• High attenuation for common and differential mode interference</td>
<td>• Designed for frequency inverters and variable speed motor drives</td>
<td>• Dual stage filter offers high insertion loss</td>
</tr>
<tr>
<td></td>
<td>• Effective from 10kHz to 30MHz</td>
<td>• Suitable for electronically noisy environments</td>
<td>• Well suited for meeting CISPR 22 A and FCC Part 15J, Class B</td>
</tr>
<tr>
<td></td>
<td>• Optimized for attenuation and size</td>
<td>• Protects programmable logic controllers from RF noise on the AC power line</td>
<td>• EP model meets very low leakage current requirements</td>
</tr>
<tr>
<td></td>
<td>• 3 or 6A versions available with IEC inlet</td>
<td>• Touch safe terminals</td>
<td>• 7 and 12A versions offer optimum package size</td>
</tr>
<tr>
<td></td>
<td>• Medical version available in the HQ Series</td>
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<td>Leakage current each Line to Ground @ 120VAC 60Hz / 250VAC 50Hz</td>
<td>.73 mA / 1.27 mA (3 &amp; 20A VQ models)</td>
<td>3.9 mA / 7.0 mA (B suffix, single stage)</td>
<td>.73 mA / 1.27 mA (VP models)</td>
</tr>
<tr>
<td></td>
<td>.22 mA / .38 mA (3 &amp; 20A EQ models)</td>
<td>3.8 mA / 6.7 mA (no suffix, dual stage)</td>
<td>.21 mA / .36 mA (EP models)</td>
</tr>
<tr>
<td></td>
<td>.29 mA / .51 mA (6A EQ models)</td>
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<tr>
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**TYPICAL APPLICATIONS**

**FILTER TYPE**

- **Q Series**
  - Highest Performance RFI Filters for Switching Power Supplies
  - Designed for frequency inverters and variable speed motor drives
  - Protects programmable logic controllers from RF noise on the AC power line
  - Touch safe terminals

- **FC Series**
  - Single Phase Power Line Filter for Frequency Converters
  - Effective from 10kHz to 30MHz
  - Optimized for attenuation and size
  - 3 or 6A versions available with IEC inlet
  - Medical version available in the HQ Series

- **EP & VP Series**
  - Dual Stage RFI Power Line Filters for Switching Mode Power Supplies
  - Dual stage filter offers high insertion loss
  - Well suited for meeting CISPR 22 A and FCC Part 15J, Class B
  - EP model meets very low leakage current requirements
  - 7 and 12A versions offer optimum package size

**POWER LINE FILTERS**

- **Q Series**
  - Highest Performance RFI Filters for Switching Power Supplies
  - Effective from 10kHz to 30MHz
  - Optimized for attenuation and size
  - 3 or 6A versions available with IEC inlet
  - Medical version available in the HQ Series

- **FC Series**
  - Single Phase Power Line Filter for Frequency Converters
  - Effective from 10kHz to 30MHz
  - Optimized for attenuation and size
  - 3 or 6A versions available with IEC inlet
  - Medical version available in the HQ Series

- **EP & VP Series**
  - Dual Stage RFI Power Line Filters for Switching Mode Power Supplies
  - Effective from 10kHz to 30MHz
  - Optimized for attenuation and size
  - 3 or 6A versions available with IEC inlet
  - Medical version available in the HQ Series

**ELECTRICAL PARAMETERS**

- **Max. voltage**
  - 250 VAC
  - 250 VAC
  - 250 VAC

- **Current Ratings**
  - 3, 6 & 20A
  - 6 & 10A
  - 3, 6, 7, 10, 12 & 20A

- **Leakage current each Line to Ground @ 120VAC 60Hz / 250VAC 50Hz**
  - .73 mA / 1.27 mA (3 & 20A VQ models)
  - .22 mA / .38 mA (3 & 20A EQ models)
  - .29 mA / .51 mA (6A EQ models)
  - 3.9 mA / 7.0 mA (B suffix, single stage)
  - 3.8 mA / 6.7 mA (no suffix, dual stage)
  - .73 mA / 1.27 mA (VP models)
  - .21 mA / .36 mA (EP models)

**MECHANICAL PARAMETERS**

- **Mounting features**
  - Screw mounting (flange or panel)
  - Screw mounting
  - Screw mounting (flange or panel)

- **Termination inputs**
  - .25 [6.3] spade terminals, wire leads or IEC 60320-1 C14
  - DIN type terminals
  - .25 [6.3] spade terminals, wire leads, terminal bolt & nut, or IEC 60320-1 C14

- **Termination outputs**
  - .25 [6.3] spade terminals or wire leads
  - DIN type terminals
  - .25 [6.3] spade terminals, wire leads, or terminal bolt & nut

**TYPICAL APPLICATIONS**

- **Q Series**
  - Trouble shooter for wide banded RFI suppression of applications with very high RFI emissions including:
  - Consumer electronics
  - Single phase industrial applications
  - Switching power supplies with transient currents
  - HVAC

- **FC Series**
  - Trouble shooter for wide banded RFI suppression of applications with very high RFI emissions including:
  - Consumer electronics
  - Single phase industrial applications
  - Switching power supplies with transient currents
  - HVAC

- **EP & VP Series**
  - Trouble shooter for wide banded RFI suppression of applications with very high RFI emissions. This filter series offers excellent attenuation for applications such as:
  - Consumer electronics
  - Single phase industrial applications
  - Drive motors and controllers

* VDE approvals for dual stage models up to 36A only
### POWER LINE FILTERS (Continued)

<table>
<thead>
<tr>
<th>High Performance RFI Power Line Filters for Switching Power Supplies</th>
<th>High Frequency Power Line Filter or Power Entry Module</th>
<th>DC filters available in a wide variety of versions for DC system RFI issues</th>
<th>AC &amp; DC rated feedthrough filters and capacitors for highest rated performance</th>
</tr>
</thead>
</table>
| - Superior common-mode and premium differential-mode attenuation  
- Smaller package sizes than the EP Series  
- ET models with low leakage current  
- Medical versions available in the HT Series | - High common and differential mode performance from 10kHz to 1GHz  
- Available with an IEC inlet, fuseholder and switch  
- Suitable for applications where computers are used to process secret or confidential information | - DA Series - Compact RFI Line Filter with DC Inlet Connection  
- DB Series - High Current DC Inlet Filter and Connectors  
- DC Series - General purpose line filters for DC applications up to 125VDC with many options  
- P Series - adaptable power entry module for DC rated applications | - FFA (AC rated) & FFD (DC rated) feedthrough filters  
- AFC (AC rated) & AFD (DC rated) feedthrough capacitors  
- Offers high reliability & performance for high frequency applications  
- Custom versions available |

<table>
<thead>
<tr>
<th>250 VAC</th>
<th>250 VAC</th>
<th>125 VDC (DA, DB &amp; 80VDC (DC, P))</th>
<th>250 VAC / 130 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 6, 10, 15 &amp; 20A</td>
<td>3, 6, 10, 15 &amp; 20A</td>
<td>60A (DB Series), 3 &amp; 6A (P Series)</td>
<td>10 to 300A (FFA/AFC/DFC)</td>
</tr>
</tbody>
</table>
| .3 mA / .5 mA (ET models)  
.75 mA / 1.2 mA (VT models) | 1.2 mA / 2.3 mA (34 models)  
.7 mA / 1.2 mA (64 models) | 15, 30, 60, 100 & 125A (DA Series) | 10 to 200A (FFD) |

**Screw mounting**
- .25 [6.3] spade terminals, wire leads, terminal bolt & nut, or IEC 60320-1 C14  
- .25 [6.3] spade terminals, wire leads, or terminal bolt & nut

**Multi stage**
- Screw mounting (flange or panel)  
- Screw mounting & snap-in  
- Screw terminal

**Wide band attenuation for applications with very high RFI emissions including:**
- Consumer electronics  
- Single phase industrial applications  
- Drive motors and controllers  
- Commercial & building equipment

**Ideal filter series for hardened applications where computers are used to process secret or confidential information:**
- Network routing equipment  
- Servers  
- Switching equipment  
- Wireless cabinets  
- Ethernet hubs  
- Base stations  
- Repeater stations  
- Power supplies for all types of communications equipment

**Universal applications including:**
- Servers and routers  
- Base stations  
- Transportation  
- Telecom  
- MRI rooms  
- High current switch mode power supplies  
- Military and aerospace

---

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## FILTER TYPE
### 3-PHASE FILTERS

<table>
<thead>
<tr>
<th>SERIES</th>
<th>AYO Series</th>
<th>AYA Series</th>
<th>A Series</th>
</tr>
</thead>
</table>

## PERFORMANCE

<table>
<thead>
<tr>
<th>Feature</th>
<th>General &amp; High Purpose</th>
<th>Wide Range Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approvals</td>
<td>UL / CSA / VDE</td>
<td>UL Recognized²</td>
</tr>
</tbody>
</table>

### ELECTRICAL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>AYO Series</th>
<th>AYA Series</th>
<th>A Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. voltage</td>
<td>440 VAC Phase to Phase</td>
<td>440 VAC Phase to Phase</td>
<td>440 VAC Phase to Phase</td>
</tr>
<tr>
<td></td>
<td>250 VAC Phase to Neutral / Ground</td>
<td>250 VAC Phase to Neutral / Ground</td>
<td>250 VAC Phase to Neutral / Ground</td>
</tr>
<tr>
<td>Current Ratings</td>
<td>3, 6, 10 &amp; 20A</td>
<td>16, 25, 36, 50, 63 &amp; 100A</td>
<td>20, 30, 45 &amp; 60A</td>
</tr>
<tr>
<td>Leakage current each Line to Ground</td>
<td>2.0 mA / 3.0 mA (3 - 10A models)</td>
<td>1.62 mA / 2.82 mA</td>
<td>1.4 mA / 3.4 mA</td>
</tr>
<tr>
<td></td>
<td>3.5 mA / 5.5 mA (20A models) @ 120 VAC 60Hz / 250 VAC 50Hz</td>
<td>@ 120 VAC 60Hz / 250 VAC 50Hz</td>
<td>@ 120 VAC 60Hz / 250 VAC 50Hz</td>
</tr>
</tbody>
</table>

### MECHANICAL PARAMETERS

<table>
<thead>
<tr>
<th>Feature</th>
<th>General &amp; High Purpose</th>
<th>Wide Range Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting features</td>
<td>Screw mounting (flange or panel)</td>
<td>Screw mounting (flange or inserts)</td>
</tr>
<tr>
<td>Termination inputs</td>
<td>.25 [6.3] spade terminals</td>
<td>Terminal bolt &amp; nut or DIN type terminals</td>
</tr>
<tr>
<td>Termination outputs</td>
<td>.25 [6.3] spade terminals</td>
<td>Terminal bolt &amp; nut or DIN type terminals</td>
</tr>
</tbody>
</table>

### TYPICAL APPLICATIONS

<table>
<thead>
<tr>
<th>Application</th>
<th>AYO Series</th>
<th>AYA Series</th>
<th>A Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide band RFI suppression for general purpose 3-phase applications with low to middle RFI emissions including:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Vending machines</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Food service equipment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Gaming machines</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Small machine tools</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Universal filter series equipped with 2 different connecting versions including:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Uninterruptible power supplies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Industrial control systems</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Machine tools</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

² All models except 16AYA10, 30AYA10, 63AYA6, 63AYA6A and 100AYA6A

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corcom.com
### 3-Phase Filters (Continued)

<table>
<thead>
<tr>
<th>Filter Series</th>
<th>Type</th>
<th>Description</th>
<th>Applications</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FCD Series</strong></td>
<td>3-phase Delta External Power Line Filter for Frequency Converters</td>
<td>Very high attenuation &amp; high insertion loss&lt;br&gt;BS models optimized for very high insertion loss&lt;br&gt;BS models suitable for infeed/regenerative (ER) applications&lt;br&gt;Touch safe terminals provide easy connections and prevent inadvertent contact for safety</td>
<td>Machine tools&lt;br&gt;Elevators &amp; escalators&lt;br&gt;Frequency converters&lt;br&gt;Industrial cabinets</td>
<td>480 VAC Phase to Phase&lt;br&gt;277 VAC Phase to Neutral / Ground&lt;br&gt;6 to 230A&lt;br&gt;Varies from .26 mA/V for 6A model to 3.25 mA/V for FCD10BS models&lt;br&gt;30 mA @ 277 VAC 50Hz</td>
</tr>
<tr>
<td><strong>BCF Series</strong></td>
<td>Compact 3-phase Delta RFI Filters for Universal Applications</td>
<td>Compact, light weight book-form design&lt;br&gt;Insulated, high quality safety terminals for input and output&lt;br&gt;Good common and differential mode performance below 100kHz&lt;br&gt;Touch safe terminals provide easy connections and prevent inadvertent contact for safety</td>
<td>Wide band RFI suppression for industrial 3-phase applications with very high RFI emissions including:</td>
<td>480 VAC Phase to Phase&lt;br&gt;277 VAC Phase to Neutral / Ground&lt;br&gt;7 to 130A&lt;br&gt;30 mA @ 277 VAC 50Hz</td>
</tr>
<tr>
<td><strong>AYC Series</strong></td>
<td>3-phase WYE RFI Power Line Filters for High Noise Applications</td>
<td>For 3-phase, four wire, WYE applications&lt;br&gt;Very high attenuation with low leakage current&lt;br&gt;Ideal for EMC troubleshooting and refurbishing in the field&lt;br&gt;Touch safe terminals provide easy connections and prevent inadvertent contact for safety</td>
<td>Wide band RFI suppression for WYE applications with very high RFI emissions including:</td>
<td>480 VAC Phase to Phase&lt;br&gt;277 VAC Phase to Neutral / Ground&lt;br&gt;16 to 200A&lt;br&gt;Varies from 62 / 106 mA/V for 16A to 111 / 192 mA/V for 200A model&lt;br&gt;1.3A (ADT6)&lt;br&gt;2.6A (63ADT6S)&lt;br&gt;4.6A (100, 160, 200ADT6S)&lt;br&gt;@ 277VAC 60Hz</td>
</tr>
<tr>
<td><strong>ADT Series</strong></td>
<td>High Performance High Current 3-phase Delta RFI Filters</td>
<td>Designed for very high insertion loss for Delta three phase, three wire applications&lt;br&gt;Available with common or differential mode coils</td>
<td>Ideal for industrial 3-phase applications with extremely high noise emissions including:</td>
<td>480 VAC Phase to Phase&lt;br&gt;277 VAC Phase to Neutral / Ground&lt;br&gt;63, 100, 160 &amp; 200A&lt;br&gt;@ 277VAC 60Hz</td>
</tr>
</tbody>
</table>

² All models except 200AYC10B

---

**UL Recognized**<br>**UL & VDE**<br>**UL Recognized³**<br>**UL Recognized**

---

**corcom.com**
## PERFORMANCE

<table>
<thead>
<tr>
<th>Filter Type</th>
<th>General Purpose</th>
<th>Wide Range Performance</th>
<th>Power Entry Module with Switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approvals</td>
<td>UL / CSA / VDE*</td>
<td>UL / CSA / VDE</td>
<td>Power Entry Module with Switch</td>
</tr>
<tr>
<td>Features</td>
<td>Minimum Depth, Cost-effective Shielded Power Inlet Filter</td>
<td>Cost-effective Medium Performance Power Inlet Filter Including the EJH/EJHS, EJM/EJMS and EJS Models</td>
<td>Two function power entry module combining a DPST switch and an IEC 60320-1 inlet</td>
</tr>
<tr>
<td></td>
<td>• Wide range of capacitor values</td>
<td>• Enhanced two element circuit provides medium attenuation to 30MHz</td>
<td>• Snap-in or flange mounting</td>
</tr>
<tr>
<td></td>
<td>• Attenuates coupled EMI up to 300MHz</td>
<td>• EJH &amp; EJHS models feature minimal leakage current suitable for patient contact medical applications</td>
<td>• Available with or without a shielded general purpose or medical grade filter</td>
</tr>
<tr>
<td></td>
<td>• Minimal to low leakage current versions are suitable for patient and non-patient contact medical equipment.</td>
<td>• EJM &amp; EJMS models feature low leakage current, suitable for most medical applications</td>
<td>• Two element circuit provides enhanced EMI attenuation</td>
</tr>
<tr>
<td></td>
<td>• Full range of mounting and termination options including unique vertical and horizontal orientation slide in mounts eliminate the need for mounting hardware</td>
<td>• EJS models feature EEJ performance in snap-in mounting</td>
<td>• Reduce OEM wiring time with optional pre-connected line and switch terminals</td>
</tr>
</tbody>
</table>

## ELECTRICAL PARAMETERS

<table>
<thead>
<tr>
<th>Max. Voltage</th>
<th>Current Ratings</th>
<th>Leakage current each Line to Ground</th>
<th>Electrical Setup</th>
<th>Mounting features</th>
<th>Termination inputs</th>
<th>Termination outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 VAC</td>
<td>15A*</td>
<td>Varies by model from .2 µA to .24mA</td>
<td>Capacitive, 8 options available values from 35pF to 3300pF</td>
<td>Screw and snap-in mounting</td>
<td>IEC 60320-1 C14</td>
<td>.25 [6.3] spade terminals, wire leads or PC board pins</td>
</tr>
<tr>
<td>250 VAC</td>
<td>1 to 20A</td>
<td>EEJ/EJH Models: .22 mA / .38 mA</td>
<td>Single stage</td>
<td>Screw and snap-in mounting</td>
<td>IEC 60320-1 C14 or C20</td>
<td>.25 [6.3] spade terminals, wire leads or PC board pins</td>
</tr>
<tr>
<td>250 VAC</td>
<td>1, 3, 6, 10 or 15A*</td>
<td>EJH Models: 2 µA / 5 µA EJM Models: .01 mA / .017 mA</td>
<td>Single stage &amp; unfiltered</td>
<td>Screw and snap-in mounting</td>
<td>IEC 60320-1 C14</td>
<td>.187 [4.8] spade terminals (non-filtered) or .25 [6.3] spade terminals (Filtered)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F Models: .25 mA / .40 mA</td>
<td></td>
<td></td>
<td></td>
<td>Available with or without pre-connected switch terminals</td>
</tr>
</tbody>
</table>

## MECHANICAL PARAMETERS

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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<td>250 VAC</td>
<td></td>
<td></td>
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<td>15A*</td>
<td>1 to 20A</td>
<td>1, 3, 6, 10 or 15A*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leakage current each Line to Ground@ 120VAC 60Hz / 250VAC 50Hz</td>
<td>Varies by model from .2 µA to .24mA</td>
<td>EEJ/EJH Models: .22 mA / .38 mA</td>
<td>EJH Models: 2 µA / 5 µA</td>
<td>EJM Models: .01 mA / .017 mA</td>
<td>F Models: .25 mA / .40 mA</td>
<td>H &amp; non-filtered models: 2 µA / 5 µA</td>
</tr>
<tr>
<td>Electrical Setup</td>
<td>Capacitive, 8 options available values from 35pF to 3300pF</td>
<td>Single stage</td>
<td>Single stage &amp; unfiltered</td>
<td>Screw and snap-in mounting</td>
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</tr>
<tr>
<td>Mounting features</td>
<td>Screw and snap-in mounting</td>
<td>Screw and snap-in mounting</td>
<td>Screw and snap-in mounting</td>
<td>IEC 60320-1 C14</td>
<td>IEC 60320-1 C14 or C20</td>
<td>IEC 60320-1 C14</td>
</tr>
<tr>
<td>Termination inputs</td>
<td>IEC 60320-1 C14</td>
<td>IEC 60320-1 C14 or C20</td>
<td>IEC 60320-1 C14</td>
<td>.25 [6.3] spade terminals, wire leads or PC board pins</td>
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<td>.187 [4.8] spade terminals (non-filtered) or .25 [6.3] spade terminals (Filtered)</td>
</tr>
</tbody>
</table>

## TYPICAL APPLICATIONS

**Wide band RFI suppression for any application with very limited space for the suppression unit including:**

- TV / Audio / Video
- Computing & accessories
- Home appliances
- Consumer electronics

*ISA versions are tested by UL to US and Canadian requirements and are VDE approved at IOA

**Wide band RFI suppression for a wide range of applications including:**

- TV / Audio / Video
- Computing & accessories
- Home appliances
- Medical equipment
- Gaming machines
- Exercise equipment
- Appliances

*ISA versions are tested by UL to US and Canadian requirements and are VDE approved at IOA

**Wide band RFI suppression for applications with limited space including:**

- TV / Audio / Video
- Computing & PC powers supplies
- Network & cabling systems
- Medical equipment

*ISA versions are tested by UL to US and Canadian requirements and are VDE approved at IOA
Corcom Filter Products

**POWER ENTRY MODULES** (Continued)

### General Purpose

- **CU Series**
- **GG & HG Series**
- **P Series**
- **EJT Series**

#### Compact 1U Height Switched Power Entry Module
- Designed for popular 1U (1 ¾") height rack mounted equipment
- Two function power entry module combining a SPST switch and an IEC 60320-1 inlet
- Snap-in, flange and flush mounting
- Reduce OEM wiring time with optional pre-connected line and switch terminals

- **250 VAC**
- 1, 3, 6, 10 or 15A*
- Filtered models: .25 mA / .40 mA
- Non-filtered models: 2 µA / 5 µA

#### Smallest Power Entry Module with Metric Fuse Holders
- Single or dual fusing
- Two element circuit provides basic attenuation
- Available with an internal ground-circuit inductor (C versions) to isolate equipment chassis from power line ground at radio frequencies
- Multiple termination and mounting styles
- Medical version as the HG Series identical to GG with dual fuse only

- **250 VAC**
- HG Models: 2 µA / 5 µA
- GG Models: .25 mA / .42 mA

#### Versatile Power Entry Module with Small Footprint
- Snap-in or flange mounting
- Standard IEC 60320-1 C14 power inlet
- Both North American and metric fusing capabilities
- Two voltage selection options
- Optional DPST on/off switch
- Filter options for general purpose, medical and high-performance EMI filtering

- **250 VAC**
- H & L Models: 2 µA / 5 µA
- S & Z Models: .25 mA / .50 mA

#### High Performance Power Inlet Filter
- Superior EMI filter with IEC 60320-1 inlet
- Double three element differential mode circuit attenuates noise up to 1GHz
- Up to 15A with IEC 60320-1 C14
- 20A rating with IEC 60320-1 C20
- Spade terminals or wire leads

- **250 VAC**
- .21 mA / .36 mA

### Superior Performance

#### Compact 1U Height Switched Power Entry Module
- Designed for popular 1U (1 ¾") height rack mounted equipment
- Two function power entry module combining a SPST switch and an IEC 60320-1 inlet
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- Reduce OEM wiring time with optional pre-connected line and switch terminals

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- Spade terminals or wire leads

- **250 VAC**
- .21 mA / .36 mA

*15A versions are tested by UL to US and Canadian requirements and are VDE approved at 10A

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