Introduction

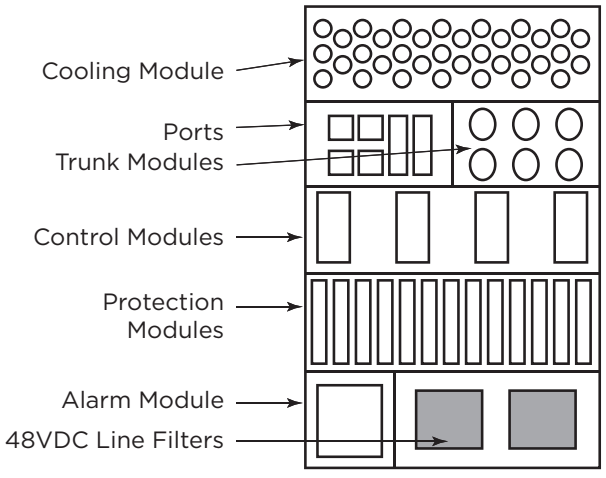
STAY CONNECTED WITH CORCOM PRODUCTS

TE Connectivity (TE) is a world leader in EMI-RFI filtering technology. Since 1955, TE has been providing EMI-RFI solutions to leading computer, industrial and telecommunications companies worldwide. Whether you are meeting FCC and international EMC standards on EMI-RFI emissions or developing a newly designed piece of equipment from being disturbed by EMI-RFI in the environment, a power line filter will help your equipment with compliance.

This section highlights TE's product offering of DC rated products. Whether the issues involve filtering noise on the data lines or on the power lines, TE can provide the needed solutions for both susceptibility and to help achieve system emissions and immunity compliance.

As new technologies in the Telecom-Datacom industry are developed and introduced, TE continues to design and develop new products to address the EMI-RFI filtering issues. TE's design engineers are very actively working with telecom and datacom system engineers to solve EMI-RFI issues.

In working with two of the leading North American communications equipment companies, TE engineers solved the EMI-RFI issues present by applying 48 VDC filters at the primary input of the DC power supply. One of the applications was on network routing equipment and required a two-stage 48VDC filter on the input to the DC power supply. TE applied high-frequency attenuating 48VDC filters on the load side of the DC power supplies to solve high-frequency EMI-RFI issues.



Typical Piece of Communications Equipment Utilizing 48VDC Filters

TE has provided solutions in both power line filtering and signal line filtering applications for many leading communications companies. As data transmission speeds increase and EMI-RFI issues multiply, TE has developed products to better solve the newer challenges communications companies encounter.

Corcom DC power line and signal line filters have been included in:

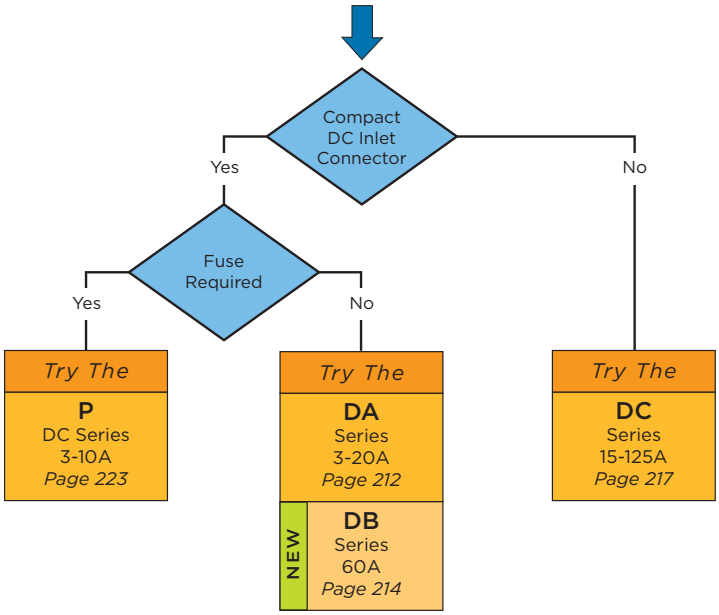
- Network routing equipment
- Servers
- Modems
- Switching equipment
- Wireless cabinets
- Ethernet hubs
- Base stations
- Repeater stations
- Power supplies for all types of communications equipment

TE has developed DC filter products specifically for the communications industry including:

- DC power line clean-up filters
- Medium and multiple-stage high-performance DC power line filters
- High frequency DC power line filters (up to 3GHz)
- High current DC power line filters (up to 60A)
- Data-transmission signal line filters

Corcom DC filters are available in versions that can solve a wide variety of EMI-RFI issues. TE has solved basic EMI-RFI issues with simple cleanup DC filters and has solved more complex EMI-RFI issues with mid-range and multiple-stage high performing DC filters. TE has also solved high-frequency noise problems (up to 3GHz) encountered with high-speed data transmission and switching power supplies.

Selector Chart

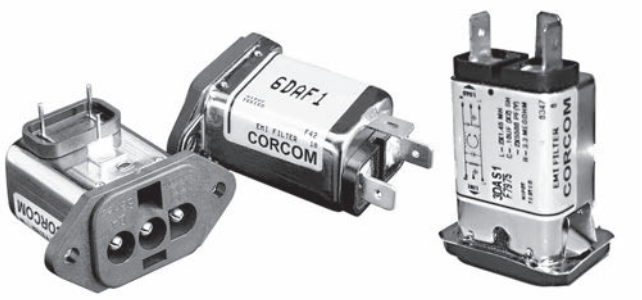


Series	Input	Output	Mounting	Options	Current Rating
P 	2-pin Inlet	1/4" Terminal	Snap In Panel *or* Flange Panel	Fuse	3, 6, 10A
DA / DAS 	3-pin Inlet	1/4" Terminal *or* PC Board	Snap In Panel *or* Flange Panel	—	3, 6, 10, 15A
DB 	2-pin High Current Inlet	Wire Leads	Flange Panel and Rear Mount	Compact, Standard, Feedthrough & Hi-Performance Filters and Unfiltered Inlet & Plug available Separately	60A
DC 	Redundant Stud Terminal Block	Redundant Stud *or* Terminal Block	Bulkhead *or* Flange Chassis	Circuit Breaker *and/or* High Frequency Performance	15, 30, 60, 100, 125A

Compact RFI Line Filter with DC Inlet Connection

DA Series

UL Recognized
CSA Certified
TUV Certified



DAFP *DAF1* *DAS1*

DA Series

- General purpose line filters for DC applications up to 125VDC.
- Compact with a 3-pin inlet connector
- Available in 3, 6, 10 and 15A versions
- Flange mount with 1/4" or PCB terminals
- Mates with a standard MOLEX* connector (HCS Series)

Ordering Information

3 DA F 1

- **Output Styles**
  1 – .250 [6.3] spade terminals
  P – PC board mount pins
- **Case Style**
  F – Flange mount
  S – Snap-in
- **DA Series**
- **Current Rating**
  3, 6, 10 or 15A

Available Part Numbers

3DAF1	10DAF1
3DAS1	10DAS1
3DAFP	10DAFP
6DAF1	15DAF1
6DAS1	15DAS1
6DAFP	15DAFP

Specifications

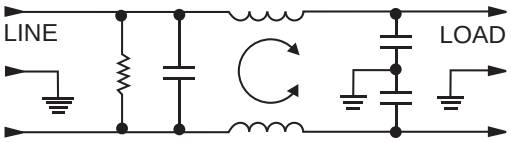
Hipot rating (one minute):
Line to Ground: 2250 VDC
LIne to Line: 1450 VDC

Rated Voltage (max): 125 VDC

Rated Current: 3 to 15A

Operating Ambient Temperature Range (at rated current I_r): -10°C to +55°C
In an ambient temperature (T_a) higher than +55°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-Ta)/45}$

Electrical Schematic



Accessories

Red
Green/Yellow
Black

GA310 – (shown above) Pre-assembled connector housing and terminals with three 36" long 18 gauge wires to mate with DA Series filters

MOLEX* connector part numbers:

03-12-1036	Connector housing for DA Series
18-12-1222	Female terminals (3 per connector)

*MOLEX is a trademark of MOLEX Incorporated

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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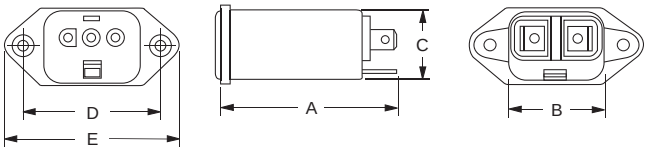
DA Series

Case Styles

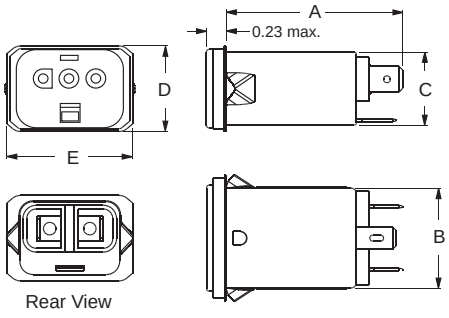
DAF1



Typical Dimensions:

Load Terminals (2):	.250 [*6.3*] with .07 [*1.8*] Dia. hole
Ground Terminal (1):	.250 [*6.3*] with .07 x .16 [*1.8 x 3.8*] slot
Mounting Holes (2):	.187 ± .008 [*4.75 ± .20*] Dia. 90° countersunk for # 4 flathead screw

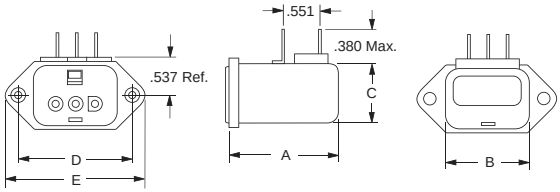
DAS1



Typical Dimensions:

Load Terminals (2):	.250 [*6.3*] with .07 [*1.8*] Dia. hole
Ground Terminal (1):	.250 [*6.3*] with .07 x .16 [*1.8 x 3.8*] slot

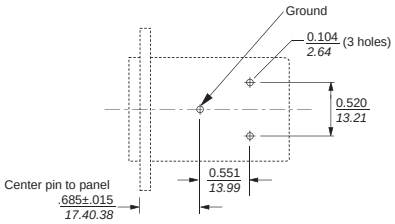
DAFP



Typical Dimensions:

Pins (3):	.031 x .06 ± .003
Mounting Holes (2):	0.187 ± .008 [*4.75 ± .20*] Dia. 90° countersunk for # 4 flathead screw

PC Board Layout



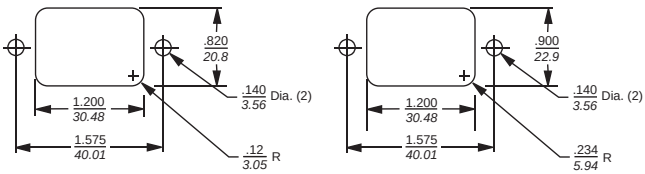
Case Dimensions

Part No.	A (max.)	B (max.)	C (max.)	D ± .010 ± .25	E (max.)
DAF1	**2.15** *54.61*	**1.12** *28.45*	**0.81** *20.57*	**1.575** *40.01*	**1.98** *50.29*
DAS1	**1.98** *50.29*	**1.10** *27.94*	**0.81** *20.57*	**0.96*** *24.38*	**1.41** *35.81*
DAFP	**1.54** *39.12*	**1.12** *28.45*	**0.81** *20.57*	**1.575** *40.01*	**1.98** *50.29*

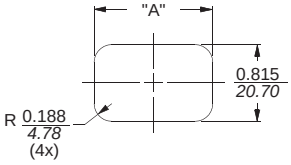
*Represents max. dimension

Recommended Panel Cutouts

DAF



DAS



Panel Thickness	"A" Dim. ± .002
0.031 – 0.052 [*.79 – 1.32*]	1.260 [*32.00*]
0.046 – 0.068 [*1.17 – 1.73*]	1.350 [*34.29*]

Performance Data

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

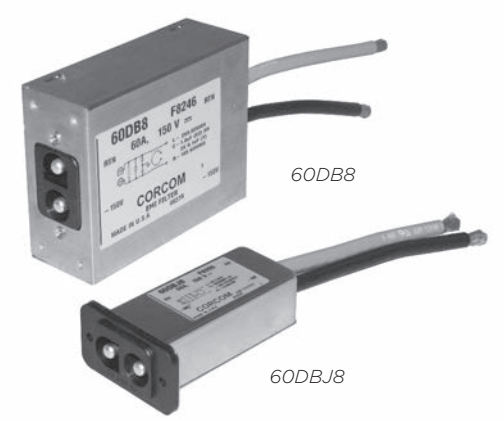
Current Rating	Frequency – MHz .05	.1	.15	.5	1	3	5	10	30	100	200
3A	6	9	11	26	41	48	52	55	46	22	16
6A	2	4	6	18	30	37	42	48	42	-	-
10A	-	1	4	8	17	25	30	36	38	21	11
15A	-	-	-	3	5	13	19	25	29	10	14

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz .05	.1	.15	.5	1	3	5	10	30	100	200
3A	-	4	7	16	18	37	47	50	43	31	36
6A	-	4	7	19	21	27	40	53	41	-	-
10A	2	4	6	17	22	23	32	48	38	30	26
15A	-	-	2	17	19	29	33	37	37	31	28

DB Series

UL Recognized
CSA Certified
TUV Certified



DB Series

- Compact connector for high-current DC applications
- Reliable performance in a compact assembly
- Polarized mating scheme
- Easy customer termination of power source
- Plug and receptacle available pre-terminated in standard wire lengths
- Available filtered or unfiltered

Ordering Information

60 DB F 8

- **Output Styles**
  - Filtered Models
    - 8 – 6” Wire leads
  - Connector Only
    - L1 – 1’ Cable pair
    - L3 – 3’ Cable pair
    - L9 – 9’ Cable pair
    - Omit for none
- **Type**
  - R – Receptacle with clips
  - P – Plug with clips
  - J – Compact filter
  - F – Feedthrough capacitors
  - X – High performance
  - Blank – Standard filter
- **DB Series**
- **Current Rating**
  - 60A

Specifications

Hipot rating (one minute):

	Filtered Models	DBR & DBP
Line to Ground:	2121 VDC	n/a
LIne to Line:	1768 VDC	1600 VAC

Rated Voltage (max): 150VDC* 300 VDC

Rated Current: 60A *(all versions)*

Operating Ambient Temperature Range (at rated current I_r): -10°C to +55°C

In an ambient temperature (T_a) higher than +55°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-Ta)/30}$

*Certified to 120V for TUV

Available Part Numbers

Filtered Models	
60DB8	60DBJ8
60DBF8	60DBX8

Connectors Only	
60DBR	60DBP
60DBRL1	60DBPL1
60DBRL3	60DBPL3
	60DBPL9

WARNING

This is not approved for hot swap or current interruption in DC applications. Doing so will result in irreparable damage to contacts.

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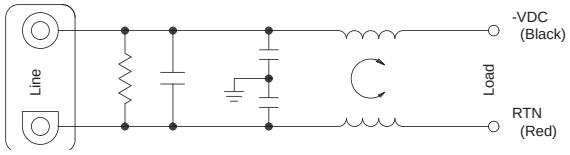
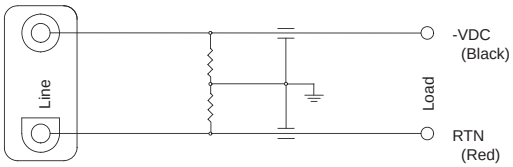
DB Series

Electrical Schematics

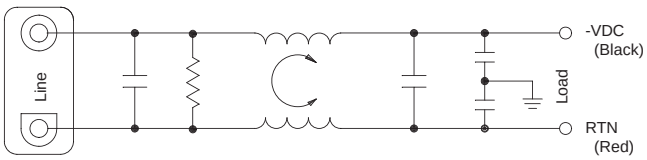
DB8 & DBJ8



DBF8



DBX8

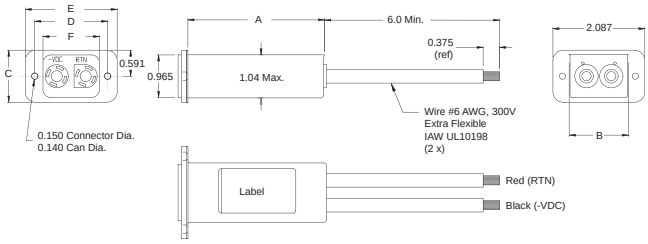


60DBPL *60DBRL*

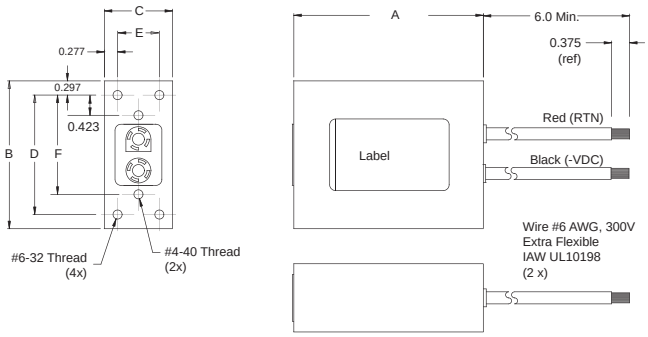
Available as connector only (shown)
or with pre-installed 6AWG 300V Extra Flexible wire

Case Styles

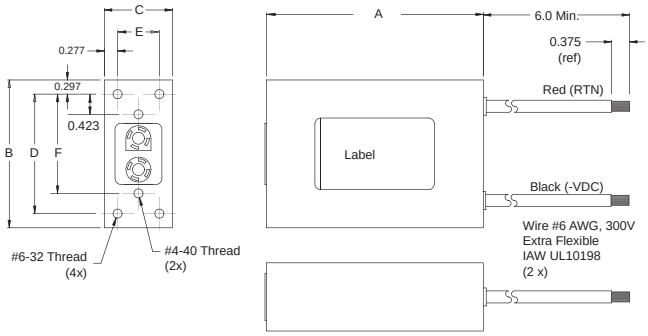
DBJ8



DB8 & DBF8



DBX8



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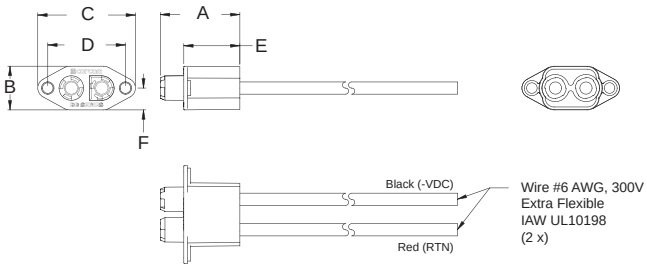
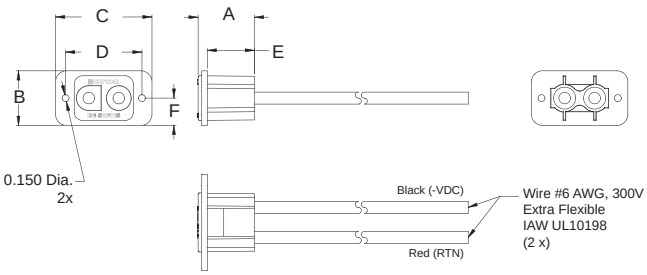
DB Series

Case Styles *(continued)*

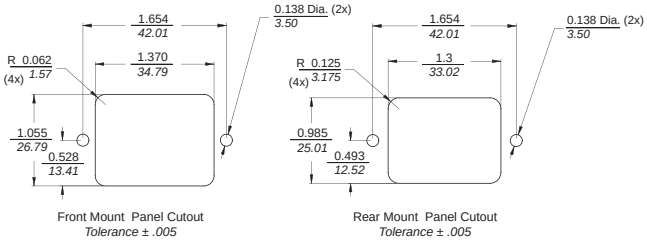
DBPL



DBRL



Recommended Panel Cutout



Minimum cable lengths:

DBRL1 / DBPL1:	12 [*304.8*]
DBRL3 / DBPL3:	36 [*914.4*]
DBPL9:	108 [*2743.2*]

Accessories / Tooling

Insertion/Extraction Tool:	1643922-1*
Crimp per TE spec:	114-13206
Crimp tool:	M22520/23-01
Indenter head:	M22520/23-04
Locator:	M22520/23-11
Connector system locking kit[1]:	Contact TE

*for DBR / DBP Only

[1]Tool required to disengage mated connector when using locking kit

Case Dimensions

Part No.	A (max)	B (max)	C ±.025 ±.635	D ±.025 ±.635	E ±.025 ±.635	F ±.025 ±.635
60DBJ8	**3.2** *81.28*	**1.36** *34.544*	**1.181** *29.997*	**1.654** *42.012*	**2.087** *53.01*	**1.28** *32.512*
60DB8 60DBF8	**4.06** *103.12*	**3.20** *81.28*	**1.45** *36.83*	**2.50** *63.50*	**0.875** *22.23*	**2.077** *52.76*
60DBX	**6.06** *153.92*	**3.50** *88.90*	**1.45** *36.83*	**2.876** *73.05*	**0.875** *22.23*	**2.265** *57.53*
60DBRL	**1.22*** *30.99**	**1.181*** *29.99*	**2.087** *53.009*	**1.654** *42.011*	**1.023** *25.984*	**0.591** *15.011*
60DBPL	**1.695*** *43.05**	**0.93*** *23.62**	**2.08** *52.832*	**1.654** *42.011*	**1.195** *30.353*	**0.465** *11.811*

*± 0.025 [*0.635*]

Performance Data

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

	Frequency – MHz									
Part No.	0.1	0.15	0.5	1	5	1	20	30	50	100
60DBJ8	-	-	-	1	13	21	30	40	30	20

	Frequency – MHz									
Part No.	0.05	0.1	0.15	.5	1	3	5	10	20	30
60DB8	2	7	10	23	30	48	38	28	20	16
60DBF8	15	22	25	35	42	50	58	54	38	36
60DBX8	-	10	16	40	48	54	60	51	40	36

Differential Mode / Symmetrical (Line to Line)

	Frequency – MHz									
Part No.	0.1	0.15	0.5	1	5	1	20	30	50	100
60DBJ8	5	8	19	26	34	26	20	16	-	-

	Frequency – MHz									
Part No.	0.05	0.1	0.15	.5	1	3	5	10	20	30
60DB8	20	26	29	43	53	30	30	24	20	18
60DBF8	9	15	18	30	34	40	44	44	48	52
60DBX8	31	30	30	70	70	54	50	60	54	50

DC Series

UL Recognized
CSA Certified
TUV Certified

60DCF6B 15DCF10

DC Series

- General purpose line filters for DC applications up to 125VDC
- Available with or without a circuit breaker
- Available with feedthrough capacitors for added high frequency performance
- Available in both flange mound (DCF) and bulkhead mount (DCB) configuration

Ordering Information

60 DC B 6 B

- **Options**
  - B – Circuit breaker
  - F – Feedthrough capacitors
  - BF – Circuit breaker and feedthrough
  - *F and BF available only in bulkhead (B) mounting style*
  - Omit for none
- **Input / Output Styles**
  - 6 – Redundant stud
  - 10 – Phoenix terminal
- **Mounting Style**
  - F = Flange
  - B = Bulkhead and rack
  - *Required for F or BF options*
- **DC Series**
- **Current Rating**
  - 15, 30, 60, 100 or 125A

Specifications

Hipot rating (one minute):
Line to Ground: 2250 VDC
LIne to Line: 1450 VDC

Rated Voltage (max): 80 VDC

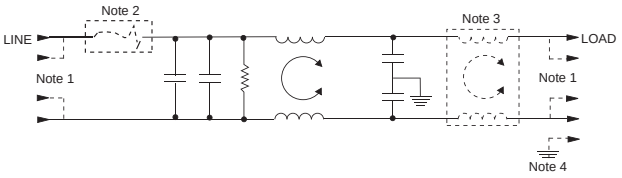
Rated Current: 15 to 125A

Operating Ambient Temperature Range (at rated current I_r): -10°C to +55°C

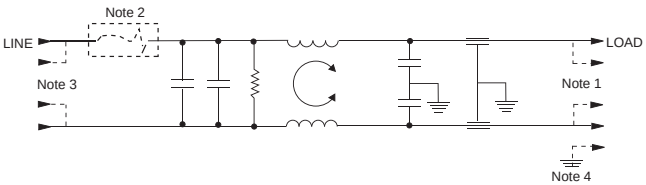
In an ambient temperature (T_a) higher than +55°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-Ta)/30}$

Electrical Schematics

Standard Performance



High Frequency Performance *(F & BF Styles)*



Note 1: Depicts redundant style 6 terminals.
Note 2: Depicts optional circuit breaker.
Note 3: For 100 & 125A versions delete second coil.
Note 4: Depicts style 10 terminal versions which have separate ground stud.

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DC Series

Available Part Numbers

Standard Performance		High Performance	
15DCF6	15DCF10	15DCB10F	15DCB6F
30DCF6	30DCF10	30DCB10F	30DCB6F
60DCF6	60DCF10	60DCB10F	60DCB6F
100DCF6	100DCF10	100DCB10F	100DCB6F
125DCF6	125DCF10	125DCB10F	125DCB6F
15DCF6B	15DCF10B	15DCB6BF	
30DCF6B	30DCF10B	30DCB6BF	
60DCF6B	60DCF10B	60DCB6BF	
100DCF6B	100DCF10B	100DCB6BF	
125DCF6B	125DCF10B	125DCB6BF	
15DCB6	15DCB10	15DCB10BF	
30DCB6	30DCB10	30DCB10BF	
60DCB6	60DCB10	60DCB10BF	
100DCB6	100DCB10	100DCB10BF	
125DCB6	125DCB10	125DCB10BF	
15DCB6B	15DCB10B		
30DCB6B	30DCB10B		
60DCB6B	60DCB10B		
100DCB6B	100DCB10B		
125DCB6B	125DCB10B		

Termination Options

Style 6 (15, 30 & 60A)

- Supplied with #10-32 redundant studs
- 0.625 [*15.88*] spacing like polarity
- 0.750 [*19.05*] spacing opposing polarity
- Torque specification: 27 ±3 in-lb.

Style 10 (15 & 30A)

- PHOENIX CONTACT* part number: VDFK4
- Accepts 12 AWG stranded wire
- Wire strip length: 0.315 [*8.0*]
- Torque specification: 5.5 – 7.0 in-lb.
- Ground stud: 8-32

Style 10 (100A)

- PHOENIX CONTACT* part number: HDFK 25-VP
- Accepts 4 AWG stranded wire
- Wire strip length: 0.748 [*19.0*]
- Torque specification: 35.4 – 39.9 in-lb.
- Ground stud: 1/4-20

Style 6 (100 & 125A)

- Supplied with 1/4-20 redundant studs
- 0.750 [*19.05*] spacing like polarity
- 1.00 [*25.4*] spacing opposing polarity
- Torque specification: 45 ±2 in-lb

Style 10 (60A)

- PHOENIX CONTACT* part number: HDFK 16-VP
- Accepts 6 AWG stranded wire
- Wire strip length: 0.630 [*16.0*]
- Torque specification: 17.7 – 21.2 in-lb.
- Ground stud: 10-32

Style 10 (125A)

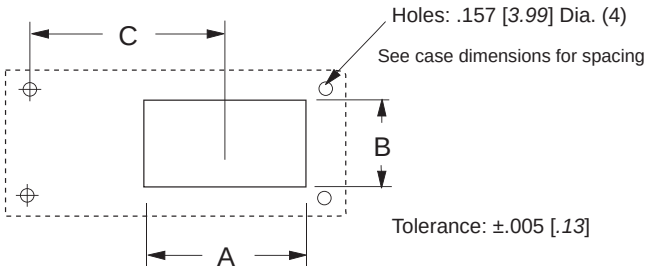
- PHOENIX CONTACT* part number: HDFK 50-VP
- Accepts 1 AWG stranded wire
- Wire strip length: 0.945 [*24.0*]
- Torque specification: 35.4 – 39.9 in-lb.
- Ground stud: 1/4-20

*PHOENIX CONTACT is a trademark of Phoenix Contact GmbH & Co. KG.

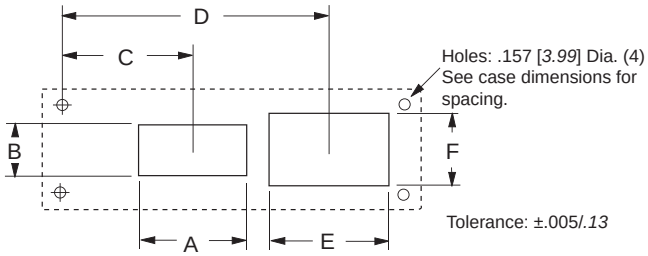
DC Series

Recommended Panel Cutouts

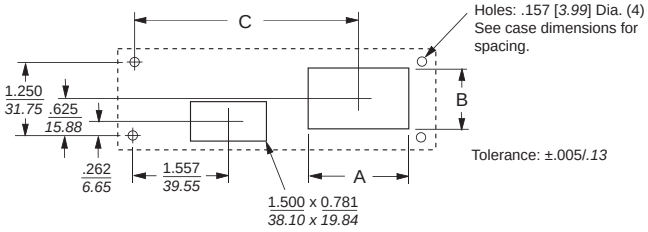
DCB6(F) & DCB10(F)



DCB6B(F) & DCB10B(F) 15 to 60A



DCB6B(F) & DCB10B(F) 100 to 125A



Cutout Dimensions

DCB6(F) & DCB10(F)

Part No.	A	B	C
15DCB6(F) 30DCB6(F)	**1.375** *34.93*	**1.249** *31.72*	**3.472** *88.19*
15DCB10(F) 30DCB10(F)	**1.250** *31.75*	**1.000** *25.40*	**3.472** *88.19*
60DCB6(F)	**1.375** *34.93*	**1.249** *31.72*	**3.472** *88.19*
60DCB10(F)	**1.674** *42.52*	**1.010** *25.65*	**3.443** *87.45*
100DCB6(F) 125DCB6(F)	**1.700** *43.18*	**1.549** *39.34*	**3.472** *88.19*
100DCB10(F)	**1.954** *49.63*	**1.500** *38.10*	**2.830** *71.20*
125DCB10(F)	**2.250** *57.15*	**1.590** *40.39*	**2.725** *69.22*

DCB6B(F) & DCB10B(F) 15 to 60A

Part No.	A	B	C	D	E	F
15DCB6B(F) 15DCF6B	**1.50** *38.10*	**0.781** *19.84*	**1.308** *33.22*	**3.472** *88.19*	**1.375** *34.93*	**1.249** *31.72*
15DCB10B(F) 15DCF10B	**1.50** *38.10*	**0.781** *19.84*	**1.308** *33.22*	**3.472** *88.19*	**1.250** *31.75*	**1.00** *25.40*
30DCB6B(F) 30DCF6B	**1.50** *38.10*	**0.781** *19.84*	**1.308** *33.22*	**3.472** *88.19*	**1.375** *34.93*	**1.249** *31.72*
30DCB10B(F) 30DCF10B	**1.50** *38.10*	**0.781** *19.84*	**1.308** *33.22*	**3.472** *88.19*	**1.250** *31.75*	**1.00** *25.40*
60DCB10B(F) 60DCF10B	**1.50** *38.10*	**0.781** *19.84*	**1.308** *33.22*	**3.443** *87.45*	**1.674** *42.52*	**1.010** *25.65*
60DCF6B(F) 60DCF6B	**1.50** *38.10*	**0.781** *19.84*	**1.308** *33.22*	**3.472** *88.19*	**1.375** *34.93*	**1.249** *31.72*

DCB6B(F) & DCB10B(F) 100 to 125A

Part No.	A	B	C
100DCB6B(F) 100DCF6B 125DCB6B(F) 125DCF6B	**1.70** *43.18*	**1.549** *39.34*	**4.222** *107.23*
100DCB10B(F) 100DCF10B	**1.954** *49.63*	**1.50** *38.10*	**4.295** *109.09*
125DCB10B(F)	**2.25** *57.15*	**1.59** *40.39*	**4.147** *105.33*
125DCF10B	**2.25** *57.15*	**1.59** *40.39*	**2.725** *105.33*

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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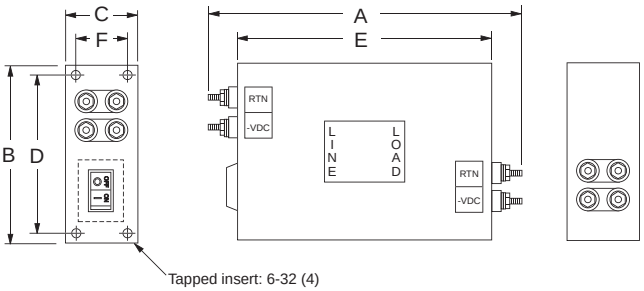
DC Series

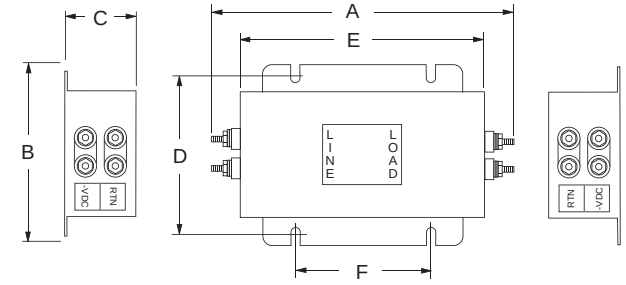
Case Styles

DCB6 & DCB6B



Note: Delete circuit breaker for DCB6 models

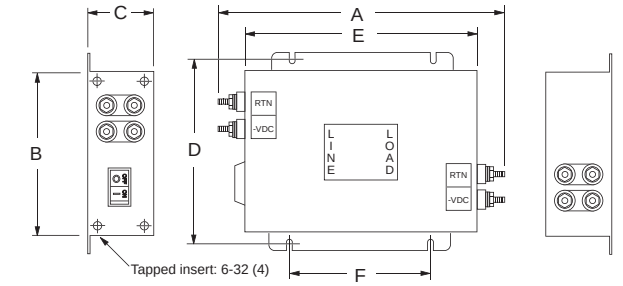
DCF6



Typical Dimensions:

Mounting Slots (4): .260 x .39 [*6.6 x 9.9*] 60 to 125A versions
Mounting Holes (4) .203 x .156 [*5.2 x 4.0*] 15 & 30A versions

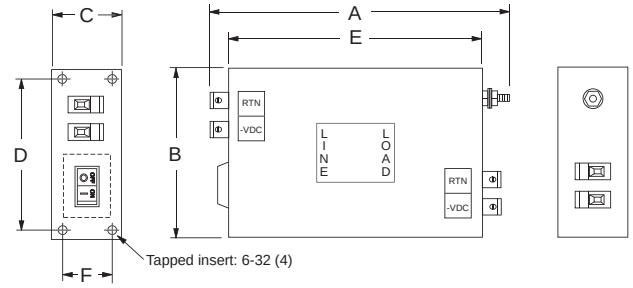
DCF6B



Typical Dimensions:

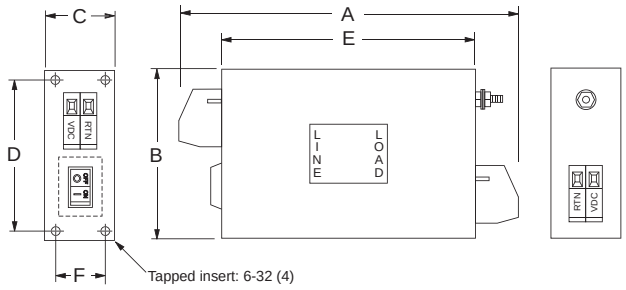
Mounting Slots (4): .260 x .39 [*6.6 x 9.9*]

DCB10 & DCB10B (15 to 30A)



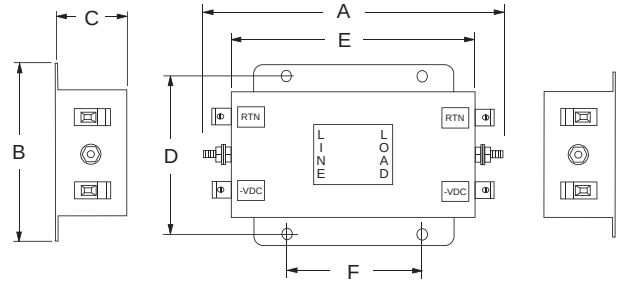
Note: Delete circuit breaker for DCB10 models

DCB10 & DCB10B (60 to 125A)



Note: Delete circuit breaker for DCB10 models

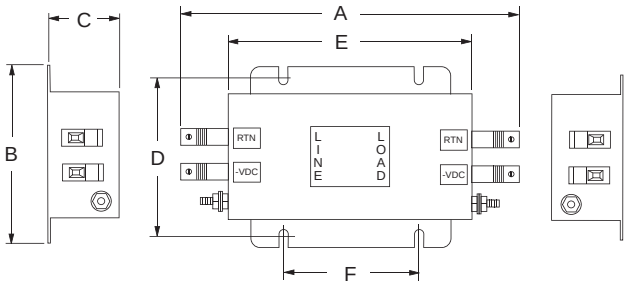
DCF10 (15 & 30A)



Typical Dimensions:

Mounting Holes (4) .203 x .156 [*5.2 x 4.0*]

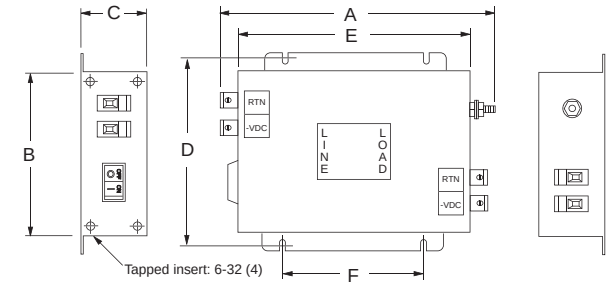
DCF10 (60 to 125A)



Typical Dimensions:

Mounting Slots (4): .260 x .39 [*6.6 x 9.9*]

DCF10B (15 & 30A)



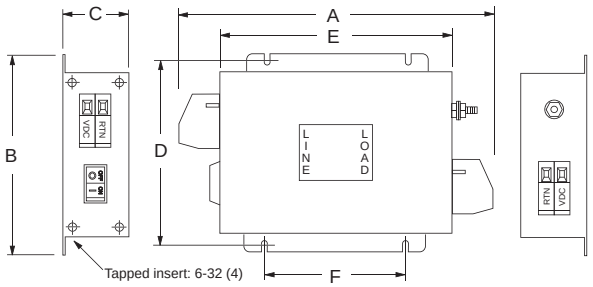
Typical Dimensions:

Mounting Slots (4): .260 x .39 [*6.6 x 9.9*]

DC Series

Case Styles *(continued)*

DCF10B (60 TO 125A)



Typical Dimensions:
Mounting Slots (4): .260 x .39 *[6.6 x 9.9]*

Case Dimensions

Part No.	A (max)	B (max)	C (max)	D ±.020 ±.51	E (max)	F ±.020 ±.51
15DCB6(F)	**5.69** *144.5*	**5.06** *128.5*	**1.48** *37.6*	**4.50** *114.3*	**4.06** *103.1*	**0.950** *24.13*
15DCB6B(F)	**7.69** *195.3*	**5.06** *128.5*	**1.48** *37.6*	**4.50** *114.3*	**6.06** *153.9*	**0.950** *24.13*
15DCB10(F)	**5.06** *128.5*	**5.06** *128.5*	**1.48** *37.6*	**4.50** *114.3*	**4.06** *103.1*	**0.950** *24.13*
15DCB10B(F)	**7.06** *179.3*	**5.06** *128.5*	**1.48** *37.6*	**4.50** *114.3*	**6.06** *153.9*	**0.950** *24.13*
15DCF6	**5.33** *135.4*	**3.10** *78.7*	**1.78** *45.2*	**2.677** *68.0*	**3.70** *94.0*	**2.00** *50.80*
15DCF6B(F)	**7.69** *195.3*	**5.06** *128.5*	**1.48** *37.6*	**5.740** *145.8*	**6.06** *153.9*	**3.52** *89.41*
15DCF10	**4.75** *120.7*	**3.10** *78.7*	**1.78** *45.2*	**2.677** *68.0*	**3.70** *94.0*	**2.0** *50.8*
15DCF10B(F)	**7.06** *179.3*	**5.06** *128.5*	**1.48** *37.6*	**5.740** *145.80*	**6.06** *153.9*	**3.520** *89.41*
30DCB6(F)	**7.69** *195.3*	**5.06** *128.5*	**1.48** *37.6*	**4.50** *114.3*	**6.06** *153.9*	**0.95** *24.13*
30DCB6B(F)	**8.69** *220.7*	**5.06** *128.5*	**1.48** *37.6*	**4.50** *114.3*	**7.06** *179.3*	**0.95** *24.13*
30DCB10(F)	**7.06** *179.3*	**5.06** *128.5*	**1.48** *37.6*	**4.50** *114.3*	**6.06** *153.9*	**0.95** *24.13*
30DCB10B(F)	**8.06** *204.7*	**5.06** *128.5*	**1.48** *37.6*	**4.50** *114.3*	**7.06** *179.3*	**0.95** *24.13*
30DCF6	**6.19** *157.2*	**3.96** *100.6*	**2.18** *55.4*	**3.50** *88.9*	**4.56** *115.8*	**2.00** *50.8*
30DCF6B	**8.69** *220.73*	**5.0** *127.0*	**1.48** *37.6*	**5.74** *145.8*	**7.06** *179.3*	**4.52** *114.81*
30DCF10	**5.56** *141.2*	**3.96** *100.58*	**2.18** *55.4*	**3.5** *88.9*	**4.56** *115.8*	**2.0** *50.8*
30DCF10B	**8.06** *204.7*	**5.06** *128.52*	**1.48** *37.6*	**5.74** *145.8*	**7.06** *179.3*	**4.52** *114.81*

Case Dimensions *(continued)*

Part No.	A (max)	B (max)	C (max)	D ±.020 ±.51	E (max)	F ±.020 ±.51
60DCB6(F)	**8.69** *220.73*	**5.06** *128.52*	**1.48** *37.6*	**4.50** *114.3*	**7.06** *179.3*	**0.95** *24.13*
60DCB6B(F)	**10.69** *271.5*	**5.06** *128.52*	**1.48** *37.6*	**4.50** *114.3*	**9.06** *230.1*	**0.95** *24.13*
60DCF6	**7.56** *192.0*	**5.48** *139.2*	**2.55** *64.8*	**4.92** *124.97*	**5.94** *150.9*	**2.756** *70.0*
60DCF6B	**10.69** *271.5*	**5.06** *128.52*	**1.48** *37.6*	**5.74** *145.8*	**9.06** *230.1*	**6.52** *165.61*
60DCF10	**8.56** *217.4*	**5.48** *139.2*	**2.55** *64.8*	**4.92** *124.97*	**5.94** *150.9*	**2.576** *65.43*
60DCF10B	**11.75** *298.5*	**5.06** *128.5*	**1.48** *37.6*	**5.74** *145.8*	**9.06** *230.1*	**6.52** *165.61*
100DCB6(F)	**10.31** *261.9*	**5.06** *128.5*	**1.78** *45.2*	**4.50** *114.3*	**8.06** *204.7*	**1.25** *31.75*
100DCB6B(F)	**12.31** *312.7*	**6.06** *153.9*	**1.78** *45.2*	**5.50** *139.7*	**10.06** *255.5*	**1.25** *31.75*
100DCB10(F)	**11.13** *282.6*	**5.06** *128.5*	**1.78** *45.2*	**4.50** *114.3*	**8.06** *204.7*	**1.25** *31.75*
100DCB10B(F)	**13.13** *333.5*	**6.06** *153.9*	**1.78** *45.2*	**5.50** *139.7*	**10.06** *255.5*	**1.25** *31.75*
100DCF6	**10.60** *269.2*	**6.30** *160.0*	**2.52** *64.0*	**5.70** *144.78*	**8.46** *214.9*	**4.52** *114.81*
100DCF6B	**12.31** *312.7*	**6.06** *153.9*	**1.78** *45.2*	**6.74** *171.2*	**10.06** *255.5*	**7.52** *191.01*
100DCF10	**11.50** *292.1*	**6.30** *160.0*	**2.52** *64.0*	**5.70** *144.78*	**8.46** *214.9*	**4.52** *114.81*
100DCF10B	**13.13** *333.5*	**6.06** *153.9*	**1.78** *45.2*	**6.74** *171.2*	**10.06** *255.5*	**7.52** *191.01*
125DCB6(F)	**10.31** *261.9*	**5.06** *128.5*	**1.78** *45.2*	**4.50** *114.3*	**8.06** *204.7*	**1.25** *31.75*
125DCB6B(F)	**12.31** *312.7*	**6.06** *153.9*	**1.78** *45.2*	**5.50** *139.7*	**10.06** *255.5*	**1.25** *31.75*
125DCB10(F)	**11.50** *292.1*	**5.06** *128.5*	**1.78** *45.2*	**4.50** *114.30*	**8.06** *204.7*	**1.25** *31.75*
125DCB10B(F)	**13.50** *342.9*	**6.06** *153.9*	**1.78** *45.2*	**5.50** *139.7*	**10.06** *255.5*	**1.25** *31.75*
125DCF6	**10.60** *269.2*	**6.30** *160.0*	**2.52** *64.0*	**5.70** *144.78*	**8.46** *214.9*	**4.52** *114.81*
125DCF6B	**12.31** *312.7*	**6.06** *153.9*	**1.78** *45.2*	**6.74** *171.2*	**10.06** *255.5*	**7.52** *191.01*
125DCF10	**11.86** *301.2*	**6.30** *160.0*	**2.52** *64.0*	**5.70** *144.78*	**8.46** *214.9*	**4.52** *114.81*
125DCF10B	**13.50** *342.9*	**6.06** *153.9*	**1.78** *45.2*	**6.74** *171.2*	**10.06** *255.5*	**7.52** *191.01*

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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DC Series

Performance Data *(continued)*

Minimum Insertion Loss

Measured in closed 50 Ohm system

Standard Performance

Common Mode / Asymmetrical (Line to Ground)

Current Rating	Frequency – MHz									
	.01	.05	.1	.15	.5	1	3	5	10	30
15A	-	1	12	20	41	45	61	63	47	39
30A	-	4	15	23	47	59	64	56	44	36
60A	-	-	9	17	38	40	59	50	39	34
100A	-	-	10	18	38	39	53	50	35	21
125A	-	-	12	18	30	32	44	49	29	18

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz									
	.01	.05	.1	.15	.5	1	3	5	10	30
15A	7	22	27	30	30	36	56	49	38	31
30A	7	22	28	31	32	59	56	51	41	28
60A	15	30	36	40	40	35	60	51	39	32
100A	14	29	35	39	33	30	53	53	41	30
125A	14	24	35	39	40	28	53	60	42	33

High Frequency Performance (F & BF Styles)

Common Mode / Asymmetrical (Line to Ground)

Current Rating	Frequency – MHz										50 to 300	300 to 3000
	.01	.05	.1	.15	.5	1	3	5	10	20		
15A	-	1	12	20	41	45	55	50	45	25	50	30
30A	-	4	15	20	46	58	60	60	48	35	50	30
60A	-	-	9	16	38	42	52	60	48	26	40	30
100A	-	-	9	16	38	42	52	60	42	26	40	30
125A	-	-	9	16	28	34	46	54	34	34	40	30

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz									
	.01	.05	.1	.15	.5	1	3	5	10	20
15A	7	22	27	30	30	50	60	60	60	36
30A	7	22	27	30	33	56	60	60	60	40
60A	15	30	36	40	37	26	46	54	48	30
100A	14	29	35	39	33	30	56	53	41	30
125A	14	29	35	39	40	28	53	60	42	33

The CHAMELEON Adaptable Module for DC Applications

P Series

UL Recognized
CSA Certified
TUV Certified

P Series

- Full flexibility of design in the most compact package
- General purpose designed for DC applications
- Mates with a standard MOLEX* connector (HCS Series) which prevents accidental connection to AC Power

Ordering Information

PS000DD3D

- Shield Options: D = Complete Shield *(DC Version)*
- Current Rating: 3 = 3A; 6 = 6A; X = 10A
- Filter Type: D = DC version
- Fuse Options: D = Dual fuse; S = Single fuse
- Input Voltage Select: 0 = Single voltage
- Switch Options: 0 = No switch
- Extender Options: 0 = None
- Mounting Style: E = Mounting ears; S = Snap-in

Specifications

Hipot rating (one minute):
Line to Ground: 2250 VDC
LIne to Line: 1450 VDC

Rated Voltage (max): 80 VDC

Rated Current: 3 to 10A

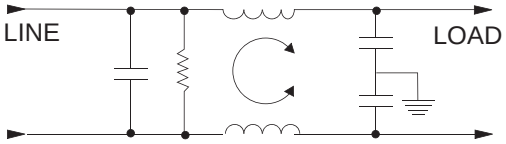
Fuseholder*: .25 x 1.25" or 5 x 20 mm

Terminals: .187 x .032 [*4.8 x .81*] terminal tabs

Operating Ambient Temperature Range (at rated current I_r): -10°C to +40°C
In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-Ta)/45}$

*Holds one or two fuses. Conversion clip provided on fuseholder for single fuse models.

Electrical Schematic



Available Part Numbers

PE000DD3D	PS000DD3D
PE000DD6D	PS000DD6D
PE000DDXD	PS000DDXD
PE000SD3D	PS000SD3D
PE000SD6D	PS000SD6D
PE000SDXD	PS000SDXD

*MOLEX is a trademark of MOLEX Incorporated

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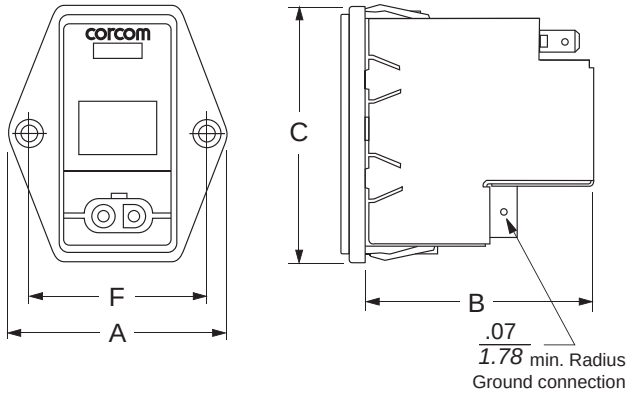
corcom.com

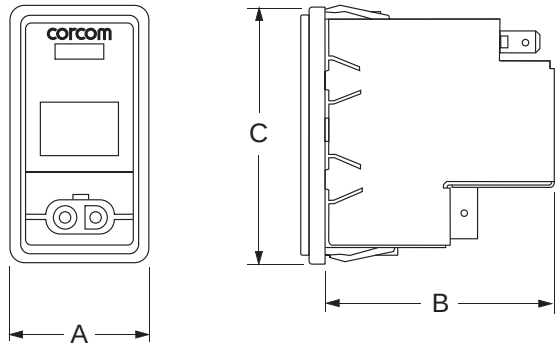
P Series

Case Styles

PE



PS



Accessories

GA210 – (shown above) Pre-assembled connector housing with two 36" long 18 gauge wires to mate with P Series DC filters

MOLEX Part Numbers:

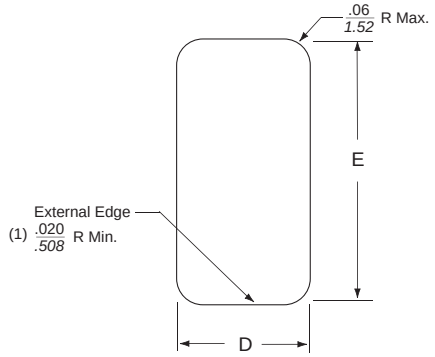
03-12-1026	DC Connector housing for P Series
18-12-1222	Female terminals (2 per connector)

Case Dimensions

Part No.	A (max.)	B (max.)	C (max.)	D *see note	E *see note	F (ref.)
PE	**1.98**	**2.13**	**2.31**	**1.12**	**2.201**	**1.575**
	50.29	*54.10*	*58.67*	*28.45*	*55.91*	*40.0*
PS	**1.24**	**2.13**	**2.31**	**1.06**	**2.201**	-
	31.50	*54.10*	*58.67*	*26.93*	*55.91*	

*+ .008 / – .000 [+.20 / – .00]

Recommended Panel Cutouts



Note: The external edges (installation side) on the "D" sides of the cutout should have a minimum .020" radius. For optimal retention against extraction, the corresponding inner edge should be sharp, without paint or coatings. Edge coatings, including anodization are also discouraged for good shield contact.

Performance Data

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

Current Rating	Frequency – MHz .03	.1	.15	.5	1	3	5	10	30
3A	7	17	21	27	33	40	44	50	32
6A	-	8	12	17	23	32	36	44	30
15A	-	3	5	10	13	23	27	35	27

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz .1	.15	.5	1	3	5	10	30
3A	2	4	12	15	30	48	50	45
6A	2	4	12	15	22	42	55	45
15A	2	4	12	15	22	42	55	45

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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