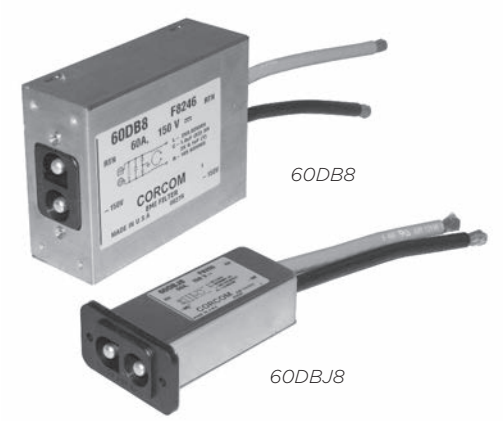
# DB Series

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.



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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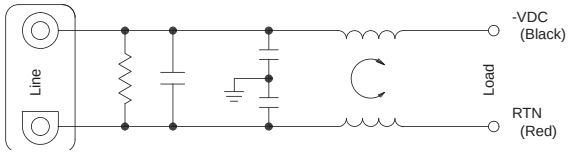
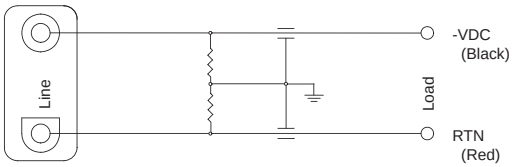
# DB Series

## Electrical Schematics

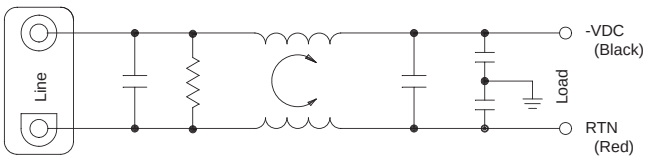
### DB8 & DBJ8




### DBF8




### DBX8

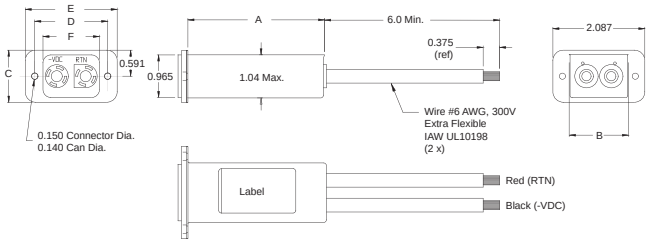



*60DBPL* *60DBRL*

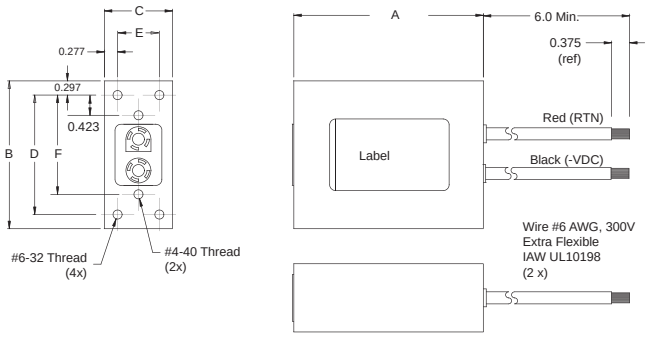
*Available as connector only (shown)*
*or with pre-installed 6AWG 300V Extra Flexible wire*

## Case Styles

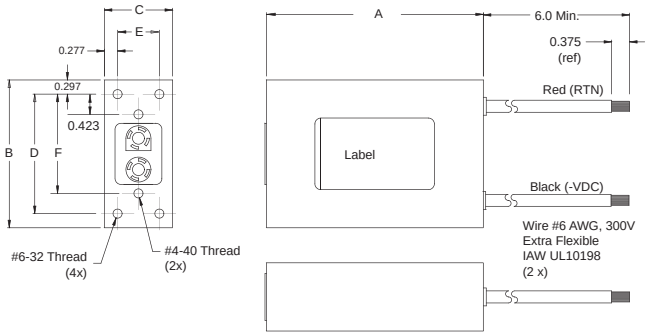
### DBJ8




### DB8 & DBF8




### DBX8





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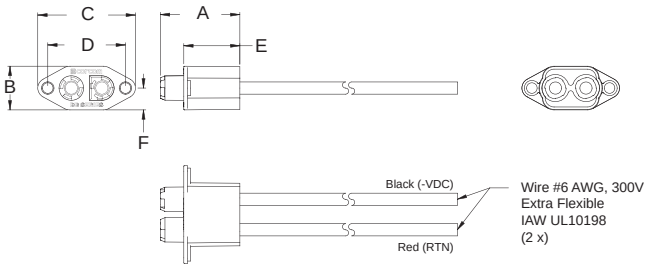
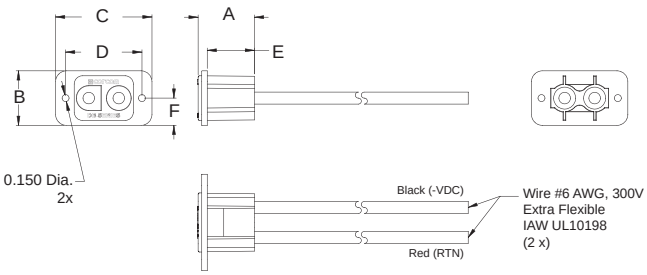
# DB Series

## Case Styles *(continued)*

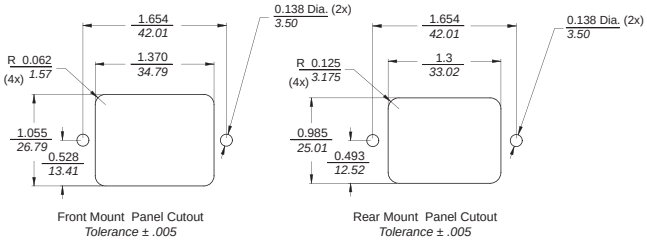
### DBPL




### 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 |