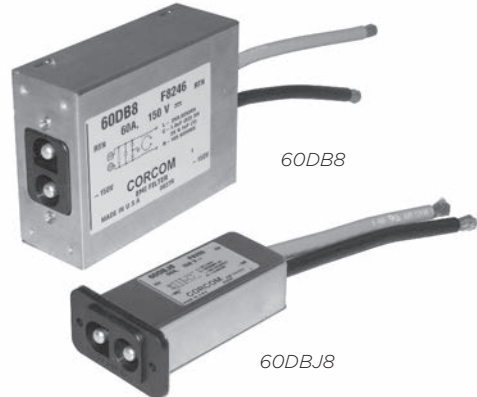


**Compact RFI High Current DC Inlet Connection**

# DB Series



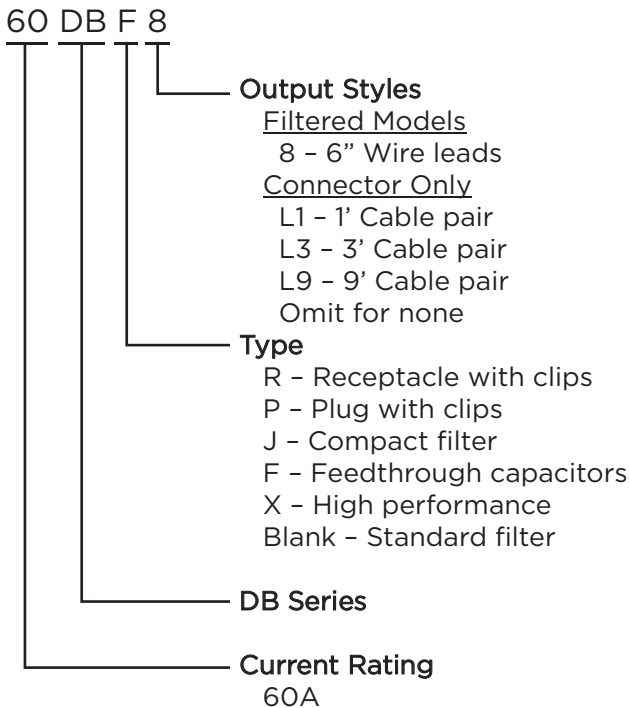
UL Recognized  
CSA Certified  
TUV Certified



## 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



## 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<sub>r</sub>):** -10°C to +55°C  
In an ambient temperature (T<sub>a</sub>) higher than +55°C the maximum operating current (I<sub>O</sub>) is calculated as follows: I<sub>O</sub> = I<sub>r</sub> √(85-T<sub>a</sub>)/30

\*Certified to 120V for TUV

## Available Part Numbers

Filtered Models	
60DB8	60DBJ8
60DBF8	60DBX8

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

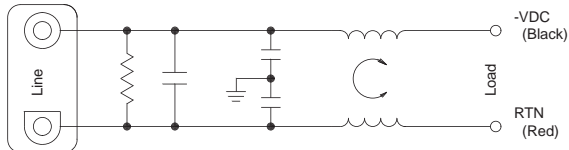
**WARNING**  
This is not approved for hot swap or current interruption in DC applications. Doing so will result in irreparable damage to contacts.

Compact RFI High Current DC Inlet Filter *(continued)*

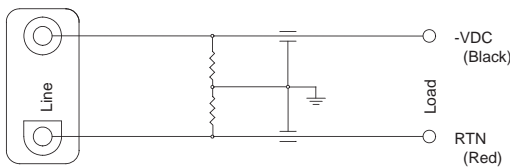
# DB Series

## Electrical Schematics

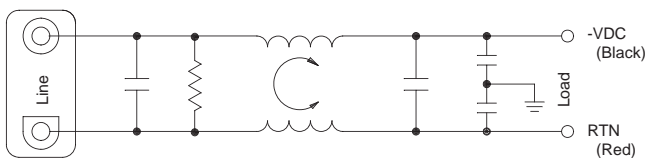
### DB8 & DBJ8



### DBF8



### DBX8



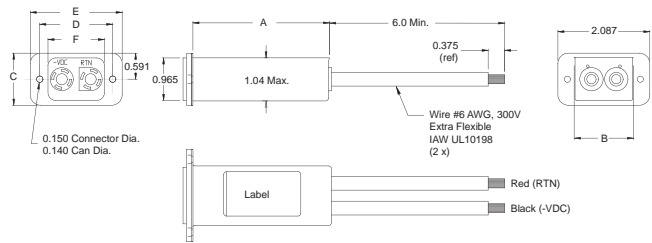
60DBPL

60DBRL

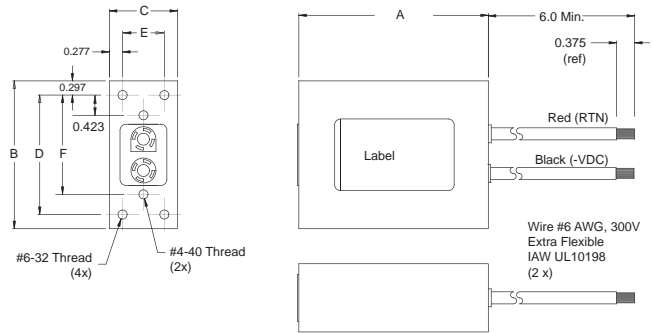
Available as connector only (shown)  
or with pre-installed 6AWG 300V Extra Flexible wire

## Case Styles

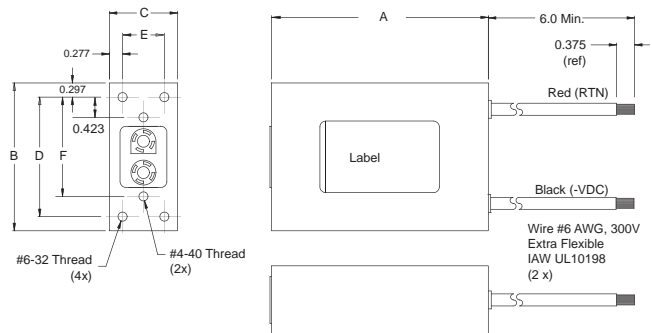
### DBJ8



### DB8 & DBF8



### DBX8



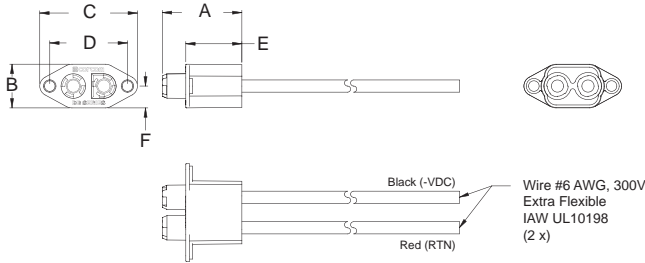
4  
DC Filters

**Compact RFI High Current DC Inlet Filter** *(continued)*

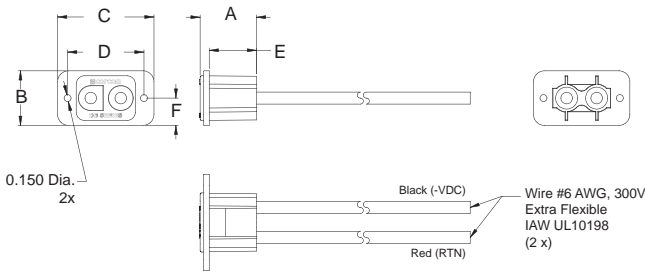
# DB Series

## Case Styles *(continued)*

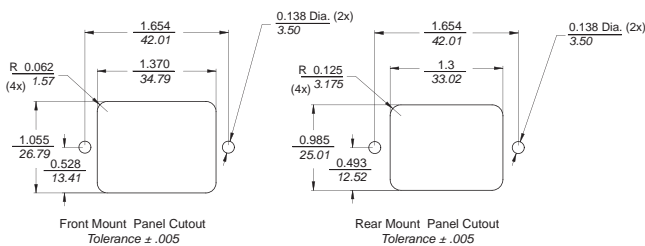
### DBPL



### 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 <sup>1</sup> :	Contact TE

\*for DBR / DBP Only

<sup>1</sup>Tool required to disengage mated connector when using locking kit

## Case Dimensions

Part No.	A	B	C	D	E	F
	(max)	(max)	$\frac{\pm.025}{\pm.635}$	$\frac{\pm.025}{\pm.635}$	$\frac{\pm.025}{\pm.635}$	$\frac{\pm.025}{\pm.635}$
60DBJ8	<b>3.2</b>	<b>1.36</b>	<b>1.181</b>	<b>1.654</b>	<b>2.087</b>	<b>1.28</b>
60DB8	<b>4.06</b>	<b>3.20</b>	<b>1.45</b>	<b>2.50</b>	<b>0.875</b>	<b>2.077</b>
60DBF8	<i>103.12</i>	<i>81.28</i>	<i>36.83</i>	<i>63.50</i>	<i>22.23</i>	<i>52.76</i>
60DBX	<b>6.06</b>	<b>3.50</b>	<b>1.45</b>	<b>2.876</b>	<b>0.875</b>	<b>2.265</b>
60DBRL	<b>1.22*</b>	<b>1.181*</b>	<b>2.087</b>	<b>1.654</b>	<b>1.023</b>	<b>0.591</b>
60DBPL	<b>1.695*</b>	<b>0.93*</b>	<b>2.08</b>	<b>1.654</b>	<b>1.195</b>	<b>0.465</b>

\*± 0.025 [0.635]

## Performance Data

### Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

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

Part No.	Frequency – MHz									
	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)

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

Part No.	Frequency – MHz									
	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