

## Compact RFI Line Filter with DC Inlet Connection

# DA Series



UL Recognized  
CSA Certified  
TUV Certified



DAFP

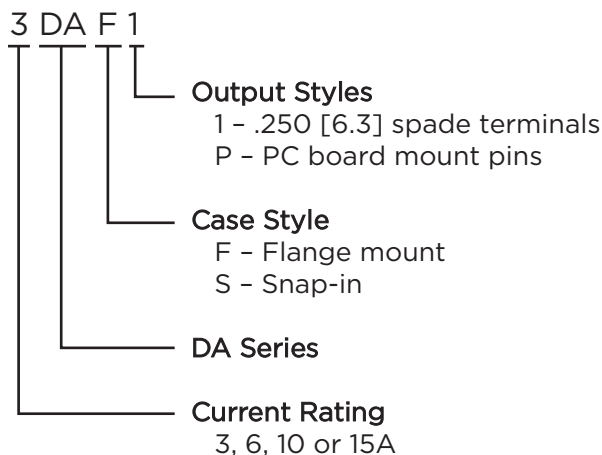
DAF1

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



## 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:

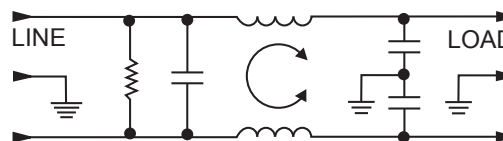
3 to 15A

### 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:  $I_o = I_r \sqrt{(85-T_a)/45}$

## Electrical Schematic



## Accessories



**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)

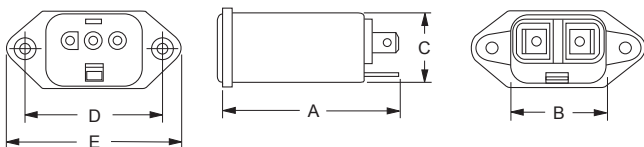
\*MOLEX is a trademark of MOLEX Incorporated

## Compact RFI Line Filter with DC Inlet Connection *(continued)*

# DA Series

## Case Styles

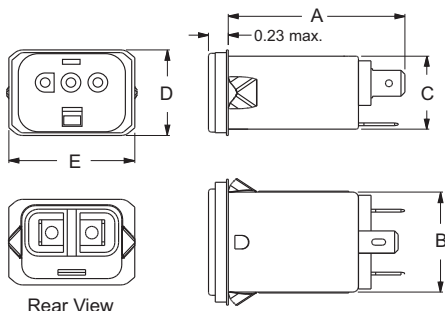
### DAF1



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

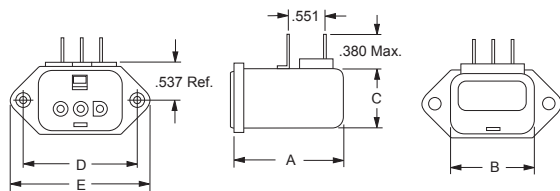
### DAS1



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

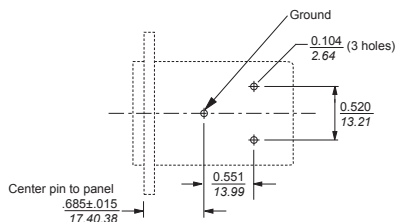
### DAFP



Typical Dimensions:

Pins (3): .031 x .06 ± .003  
Mounting Holes (2): .187 ± .008 [4.75 ± .20] Dia.  
90° countersunk for # 4 flathead screw

## PC Board Layout



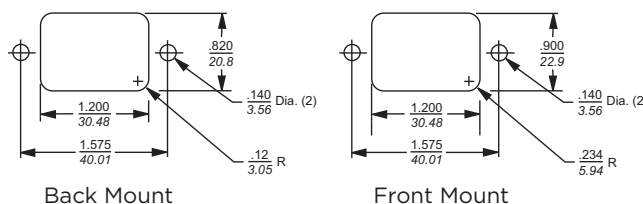
## Case Dimensions

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

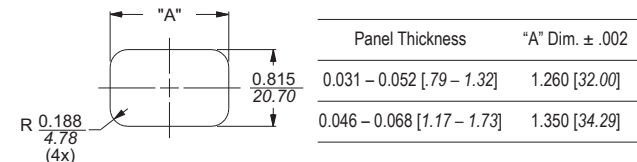
\*Represents max. dimension

## Recommended Panel Cutouts

### DAF



### DAS



## 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