

# EVX SERIES

## HIGH VOLTAGE DC EMI FILTER FOR EV APPLICATIONS

### INTRODUCTION

New series of high voltage DC filter provides EMI attenuation for electric vehicle (EV) charging applications and designed to IEC/EN 61851-23 vehicle conductive charging system

### APPLICATIONS

- Level 3 and above EV Fast charging application 75kW to 2.4MW
- Battery energy storage solution (BESS)
- Solar power convertor systems
- Power conversion systems

### FEATURES AND BENEFITS

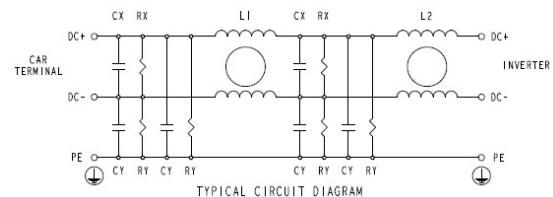
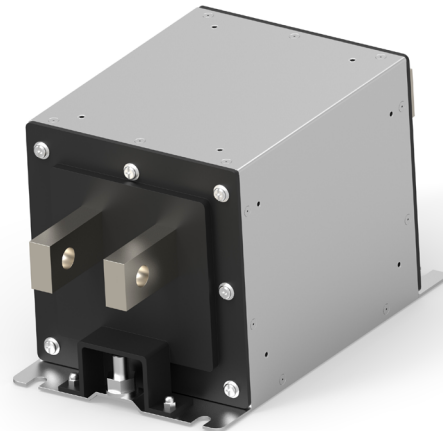
- State of art design with three high voltage levels (500V, 1000V, 1500V).
- Four levels of high attenuation performance - standard with and without GND (Ground) caps, medium and high-performance levels of EMI attenuation.
- Rated current from 150A up to 1600A.
- Designed to handle high power from 75kW to 2.4MW fast chargers.
- Performance options with different GND capacitors.
- Meets EV conductive charging system standard IEC/EN 61851-23.
- Support to meet UL 2202 EV Charging System Equipment.
- Small footprint compact design suitable for easy installation.

### APPROVALS

- UL Recognised



Technical data of approved types on request



# EVX SERIES

## DC FILTER FOR EV APPLICATION

### SPECIFICATIONS

#### ELECTRICAL CHARACTERISTICS

Maximum Continuous Operating Voltage	500VDC / 1000VDC / 1500VDC
Current Ratings	150A to 1600A @55°C
Operating Frequency	DC
High Potential Test Voltage - 500VDC	DC ±, > DC 2000 VDC for 2 sec
	DC+/DC- to E >DC 2500 VDC for 2 sec
High Potential Test Voltage - 1000VDC	DC ±, > DC 3600 VDC for 2 sec
	DC+/DC- to E >DC 6000 VDC for 2 sec
High Potential Test Voltage - 1500VDC	DC ±, > DC 3600 VDC for 2 sec
	DC+/DC- to E >DC 6000 VDC for 2 sec
Overload Capability	135% of Rated current for 15 minutes

#### FUNCTIONAL CHARACTERISTICS

Operating Temperature Range	-40°C to +100°C
Climatic Category	40/100/21
Flammability Corresponding to	UL 94 V-0 or better

#### REFERENCE STANDARDS

Design Corresponding to	UL 60939-3
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#### PRODUCT SELECTION TABLE

TE Ordering Number	Catalog Number	Rated Current @40 °C	Rated Voltage @55 °C	Total Capacitance to E (nF)	Weight	Rated coil power mW
2443552-1	150 EVX A A	150A	500VDC	0	5	25 X 3
2443552-2	150 EVX A B	150A	500VDC	100	5	
2443552-3	150 EVX A C	150A	500VDC	1000	5	
2443552-4	150 EVX A D	150A	500VDC	2000	5	
2443552-5	300 EVX A A	300A	500VDC	0	5	25 X 5
2443552-6	300 EVX A B	300A	500VDC	100	5	
2443552-7	300 EVX A C	300A	500VDC	1000	5	
2443552-8	300 EVX A D	300A	500VDC	2000	5	
2443552-9	450 EVX A A	450A	500VDC	0	5	25 X 10
1-2443552-0	450 EVX A B	450A	500VDC	100	5	
1-2443552-1	450 EVX A C	450A	500VDC	1000	5	
1-2443552-2	450 EVX A D	450A	500VDC	2000	5	
1-2443552-3	600 EVX A A	600A	500VDC	0	5	25 X 12
1-2443552-4	600 EVX A B	600A	500VDC	100	5	
1-2443552-5	600 EVX A C	600A	500VDC	1000	5	
1-2443552-6	600 EVX A D	600A	500VDC	2000	5	
1-2443552-7	1000 EVX A A	1000A	500VDC	0	8	40 X 12
1-2443552-8	1000 EVX A B	1000A	500VDC	100	8	
1-2443552-9	1000 EVX A C	1000A	500VDC	1000	8	
2-2443552-0	1000 EVX A D	1000A	500VDC	2000	8	

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### DC FILTER FOR EV APPLICATION

TE Ordering Number	Catalog Number	Rated Current @40 °C	Rated Voltage @55 °C	Total Capacitance to E (nF)	Weight	Rated coil power mW
2-2443552-1	1600 EVX A A	1600A	500VDC	0	10	60 X 12
2-2443552-2	1600 EVX A B	1600A	500VDC	100	10	
2-2443552-3	1600 EVX A C	1600A	500VDC	1000	10	
2-2443552-4	1600 EVX A D	1600A	500VDC	2000	10	
2443554-1	150 EVX B A	150A	1000VDC	0	5	25 X 3
2443554-2	150 EVX B B	150A	1000VDC	100	5	
2443554-3	150 EVX B C	150A	1000VDC	1000	5	
2443554-4	150 EVX B D	150A	1000VDC	2000	5	
2443554-5	300 EVX B A	300A	1000VDC	0	5	25 X 5
2443554-6	300 EVX B B	300A	1000VDC	100	5	
2443554-7	300 EVX B C	300A	1000VDC	1000	5	
2443554-8	300 EVX B D	300A	1000VDC	2000	5	
2443554-9	450 EVX B A	450A	1000VDC	0	5	25 X 10
1-2443554-0	450 EVX B B	450A	1000VDC	100	5	
1-2443554-1	450 EVX B C	450A	1000VDC	1000	5	
1-2443554-2	450 EVX B D	450A	1000VDC	2000	5	
1-2443554-3	600 EVX B A	600A	1000VDC	0	5	25 X 12
1-2443554-4	600 EVX B B	600A	1000VDC	100	5	
1-2443554-5	600 EVX B C	600A	1000VDC	1000	5	
1-2443554-6	600 EVX B D	600A	1000VDC	2000	5	
1-2443554-7	1000 EVX B A	1000A	1000VDC	0	8	40 X 12
1-2443554-8	1000 EVX B B	1000A	1000VDC	100	8	
1-2443554-9	1000 EVX B C	1000A	1000VDC	1000	8	
2-2443554-0	1000 EVX B D	1000A	1000VDC	2000	8	
2-2443554-1	1600 EVX B A	1600A	1000VDC	0	10	60 X 12
2-2443554-2	1600 EVX B B	1600A	1000VDC	100	10	
2-2443554-3	1600 EVX B C	1600A	1000VDC	1000	10	
2-2443554-4	1600 EVX B D	1600A	1000VDC	2000	10	
2443555-1	150 EVX C A	150A	1500VDC	0	5	25 X 3
2443555-2	150 EVX C B	150A	1500VDC	100	5	
2443555-3	150 EVX C C	150A	1500VDC	1000	5	
2443555-4	150 EVX C D	150A	1500VDC	2000	5	
2443555-5	300 EVX C A	300A	1500VDC	0	5	25 X 5
2443555-6	300 EVX C B	300A	1500VDC	100	5	
2443555-7	300 EVX C C	300A	1500VDC	1000	5	
2443555-8	300 EVX C D	300A	1500VDC	2000	5	
2443555-9	450 EVX C A	450A	1500VDC	0	5	25 X 10
1-2443555-0	450 EVX C B	450A	1500VDC	100	5	
1-2443555-1	450 EVX C C	450A	1500VDC	1000	5	
1-2443555-2	450 EVX C D	450A	1500VDC	2000	5	

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TE Ordering Number	Catalog Number	Rated Current @40 °C	Rated Voltage @55 °C	Total Capacitance to E (nF)	Weight	Rated coil power mW
1-2443555-3	600 EVX C A	600A	1500VDC	0	5	25 X 12
1-2443555-4	600 EVX C B	600A	1500VDC	100	5	
1-2443555-5	600 EVX C C	600A	1500VDC	1000	5	
1-2443555-6	600 EVX C D	600A	1500VDC	2000	5	
1-2443555-7	1000 EVX C A	1000A	1500VDC	0	8	40 X 12
1-2443555-8	1000 EVX C B	1000A	1500VDC	100	8	
1-2443555-9	1000 EVX C C	1000A	1500VDC	1000	8	
2-2443555-0	1000 EVX C D	1000A	1500VDC	2000	8	
2-2443555-1	1600 EVX C A	1600A	1500VDC	0	10	60 X 12
2-2443555-2	1600 EVX C B	1600A	1500VDC	100	10	
2-2443555-3	1600 EVX C C	1600A	1500VDC	1000	10	
2-2443555-4	1600 EVX C D	1600A	1500VDC	2000	10	

### INSERTION LOSS (TYPICAL)- MEASURED IN CLOSED 50Ω SYSTEM

		COMMON MODE									DIFFERENTIAL MODE								
		FREQUENCY (MHz)																	
ATTENUATION (dB)	Model	0.01	0.05	0.15	0.5	1	3	5	10	30	0.01	0.05	0.15	0.5	1	3	5	10	30
	150 EVX A A	0	0	6	8	8	6	5	3	11	24	37	49	44	37	32	29	23	16
	150 EVX A B	0	0	16	43	40	29	25	22	13	24	38	49	43	37	36	33	29	26
	150 EVX A C	3	14	52	46	40	30	26	22	7	24	37	50	42	36	32	32	28	23
	150 EVX A D	7	30	53	45	38	28	24	20	3	24	37	59	41	36	32	32	29	21
	150 EVX B A	0	0	6	8	8	6	5	3	11	24	37	49	44	37	32	29	23	16
	150 EVX B B	0	0	16	43	40	29	25	22	13	24	38	49	43	37	36	33	29	26
	150 EVX B C	3	14	52	46	40	30	26	22	7	24	37	50	42	36	32	32	28	23
	150 EVX B D	7	30	53	45	38	28	24	20	3	24	37	59	41	36	32	32	29	21
	150 EVX C A	0	1	7	9	8	7	6	4	3	22	34	41	46	39	38	38	26	28
	150 EVX C B	0	1	17	45	40	30	26	23	19	22	36	43	45	38	36	34	29	30
	150 EVX C C	3	14	51	45	39	29	24	21	7	21	34	42	45	38	33	33	29	23
	150 EVX C D	7	30	52	44	38	28	24	20	4	22	35	46	45	38	34	34	31	21
	300 EVX A A	0	0	1	2	2	1	1	1	2	23	36	45	46	41	34	32	29	21
	300 EVX A B	0	0	7	28	36	26	23	19	15	23	36	49	48	40	32	30	27	19
	300 EVX A C	4	11	38	40	35	25	22	19	20	23	37	49	49	42	35	34	32	25
	300 EVX A D	11	10	50	48	42	33	30	27	23	24	36	45	51	50	47	45	38	41
	300 EVX B A	0	0	1	2	2	1	1	1	2	23	36	45	46	41	34	32	29	21
	300 EVX B B	0	0	7	28	36	26	23	19	15	23	36	49	48	40	32	30	27	19
	300 EVX B C	4	11	38	40	35	25	22	19	20	23	37	49	49	42	35	34	32	25
300 EVX B D	10	11	55	55	52	44	35	26	21	24	37	47	40	50	38	37	35	35	
300 EVX C A	0	0	2	3	3	2	2	2	7	21	35	47	50	43	34	31	27	24	
300 EVX C B	0	0	7	28	37	27	24	21	23	22	34	46	51	44	38	37	33	17	
300 EVX C C	4	11	38	42	37	27	24	21	17	21	35	48	49	43	38	36	33	18	
300 EVX C D	10	11	55	57	53	44	35	26	21	22	34	46	32	48	36	35	34	35	

# EVX SERIES

## DC FILTER FOR EV APPLICATION

		COMMON MODE									DIFFERENTIAL MODE								
		FREQUENCY (MHz)																	
ATTENUATION (dB)	Model	0.01	0.05	0.15	0.5	1	3	5	10	30	0.01	0.05	0.15	0.5	1	3	5	10	30
		450 EVX A A	0	0	1	2	2	1	1	1	2	23	36	45	46	41	34	32	29
	450 EVX A B	0	0	7	28	36	26	23	19	15	23	36	49	48	40	32	30	27	19
	450 EVX A C	4	11	38	40	35	25	22	19	20	23	37	49	49	42	35	34	32	25
	450 EVX A D	11	10	50	48	42	33	30	27	23	24	36	45	51	50	47	45	38	41
	450 EVX B A	0	0	1	2	2	1	1	1	2	23	36	45	46	41	34	32	29	21
	450 EVX B B	0	0	7	28	36	26	23	19	15	23	36	49	48	40	32	30	27	19
	450 EVX B C	4	11	38	40	35	25	22	19	20	23	37	49	49	42	35	34	32	25
	450 EVX B D	10	11	55	55	52	44	35	26	21	24	37	47	40	50	38	37	35	35
	450 EVX C A	0	0	2	3	3	2	2	2	7	21	35	47	50	43	34	31	27	24
	450 EVX C B	0	0	7	28	37	27	24	21	23	22	34	46	51	44	38	37	33	17
	450 EVX C C	4	11	38	42	37	27	24	21	17	21	35	48	49	43	38	36	33	18
	450 EVX C D	10	11	55	57	53	44	35	26	21	22	34	46	32	48	36	35	34	35
	600 EVX A A	0	0	1	2	2	1	1	1	2	23	36	45	46	41	34	32	29	21
	600 EVX A B	0	0	7	28	36	26	23	19	15	23	36	49	48	40	32	30	27	19
	600 EVX A C	4	11	38	40	35	25	22	19	20	23	37	49	49	42	35	34	32	25
	600 EVX A D	11	10	50	48	42	33	30	27	23	24	36	45	51	50	47	45	38	41
	600 EVX B A	0	0	1	2	2	1	1	1	2	23	36	45	46	41	34	32	29	21
	600 EVX B B	0	0	7	28	36	26	23	19	15	23	36	49	48	40	32	30	27	19
	600 EVX B C	4	11	38	40	35	25	22	19	20	23	37	49	49	42	35	34	32	25
	600 EVX B D	10	11	55	55	52	44	35	26	21	24	37	47	40	50	38	37	35	35
	600 EVX C A	0	0	2	3	3	2	2	2	7	21	35	47	50	43	34	31	27	24
	600 EVX C B	0	0	7	28	37	27	24	21	23	22	34	46	51	44	38	37	33	17
	600 EVX C C	4	11	38	42	37	27	24	21	17	21	35	48	49	43	38	36	33	18
	600 EVX C D	10	11	55	57	53	44	35	26	21	22	34	46	32	48	36	35	34	35
	1000 EVX A A	0	0	2	2	2	2	2	1	0	24	38	46	43	37	29	27	24	25
	1000 EVX A B	0	2	9	24	35	27	23	19	12	25	38	46	42	36	22	32	26	27
	1000 EVX A C	5	14	37	44	38	29	25	21	15	25	39	46	44	31	33	30	28	29
	1000 EVX A D	10	22	30	57	54	49	43	38	36	24	37	47	53	60	44	43	41	42
	1000 EVX B A	0	0	2	2	2	2	2	1	0	24	38	46	43	37	29	27	24	25
	1000 EVX B B	0	2	9	24	35	27	23	19	12	25	38	46	42	36	22	32	26	27
	1000 EVX B C	5	14	37	44	38	29	25	21	15	25	39	46	44	31	33	30	28	29
	1000 EVX B D	10	19	38	55	53	49	42	32	25	24	38	48	47	47	38	37	35	38
	1000 EVX C A	0	0	2	2	2	2	2	1	0	21	34	45	50	42	34	32	29	29
	1000 EVX C B	0	2	9	24	36	28	25	20	13	21	34	40	41	39	47	38	32	34
	1000 EVX C C	5	14	37	45	39	30	26	22	14	22	35	46	50	38	37	34	31	32
	1000 EVX C D	10	15	46	56	53	48	43	34	26	23	37	51	45	42	35	35	33	33
	1600 EVX A B	0	2	6	40	34	31	24	20	25	25	38	36	43	37	38	34	30	22
	1600 EVX A C	6	15	27	45	34	26	22	18	25	25	39	37	44	40	35	34	30	22
	1600 EVX A D	10	18	40	59	52	44	40	34	43	25	38	47	48	44	44	44	42	44

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## DC FILTER FOR EV APPLICATION

		COMMON MODE									DIFFERENTIAL MODE								
		FREQUENCY (MHz)																	
ATTENUATION (dB)	Model	0.01	0.05	0.15	0.5	1	3	5	10	30	0.01	0.05	0.15	0.5	1	3	5	10	30
	1600 EVX B A	0	0	0	7	4	3	3	2	15	25	39	38	45	39	32	29	23	18
	1600 EVX B B	0	2	6	40	34	31	24	20	25	25	38	36	43	37	38	34	30	22
	1600 EVX B C	6	15	27	45	34	26	22	18	25	25	39	37	44	40	35	34	30	22
	1600 EVX B D	10	18	40	53	42	34	30	24	16	26	40	42	44	40	34	34	30	30
	1600 EVX C A	0	0	0	3	3	3	2	1	21	21	35	50	45	37	30	27	21	18
	1600 EVX C B	0	2	6	28	34	27	24	19	34	21	35	53	45	38	41	35	31	22
	1600 EVX C C	6	15	20	39	34	27	23	19	37	22	35	61	44	42	35	34	31	21
	1600 EVX C D	10	20	35	40	41	33	28	24	17	18	35	50	44	38	34	33	28	30

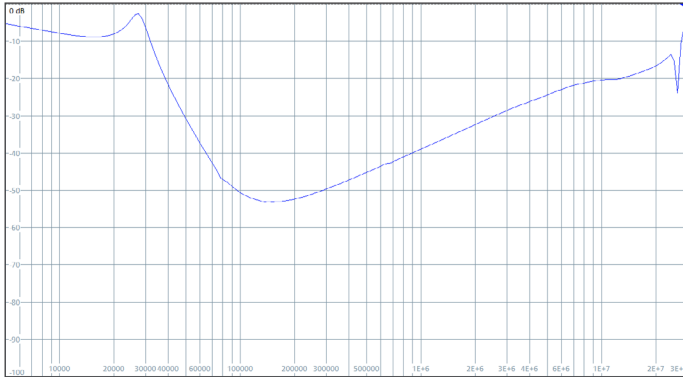
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## DC FILTER FOR EV APPLICATION

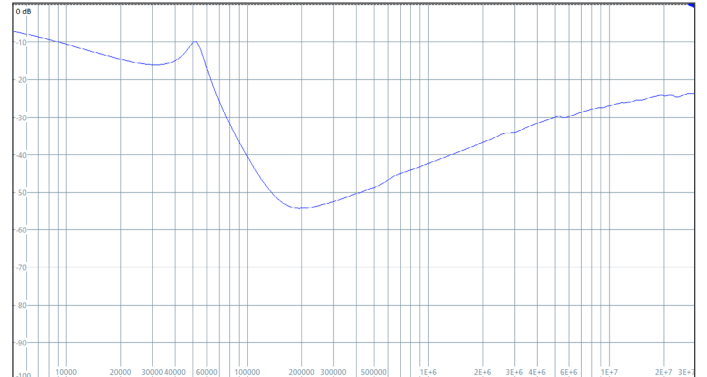
### COMMON MODE INSERTION LOSS (TYPICAL IN dB) FOR 500V- MEASURED IN CLOSED 50Ω SYSTEM

Note: Model EVX followed by XD Plots are shown below.

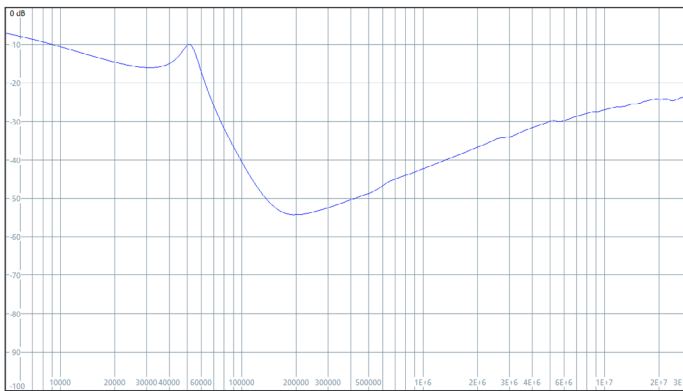
150A



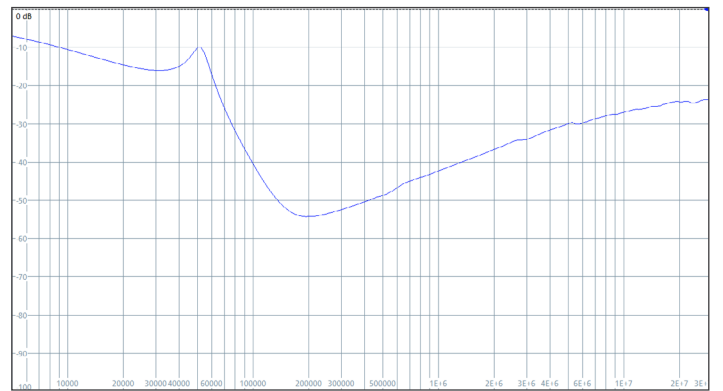
300A



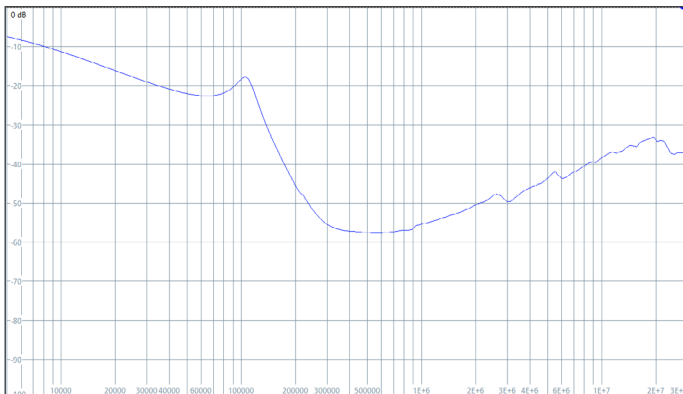
450A



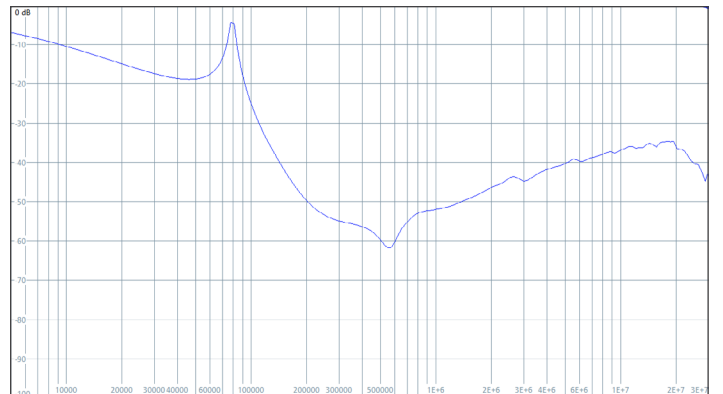
600A



1000A



1600A



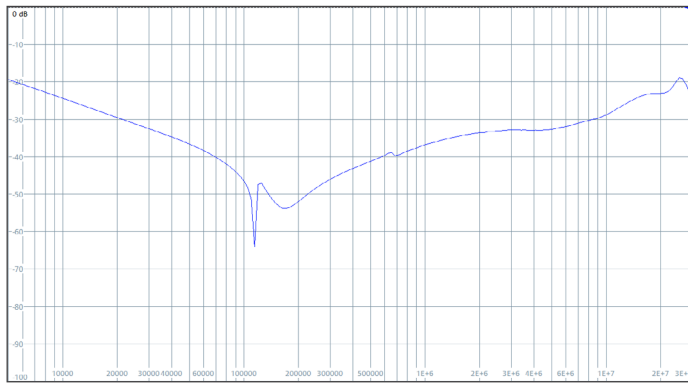
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## DC FILTER FOR EV APPLICATION

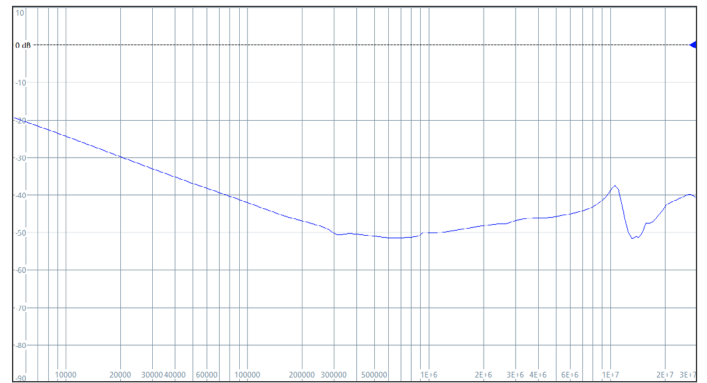
### DIFFERENTIAL MODE INSERTION LOSS FOR 500V (TYPICAL IN dB) - MEASURED IN CLOSED 50Ω SYSTEM

Note: Model EVX followed by XD Plots are shown below.

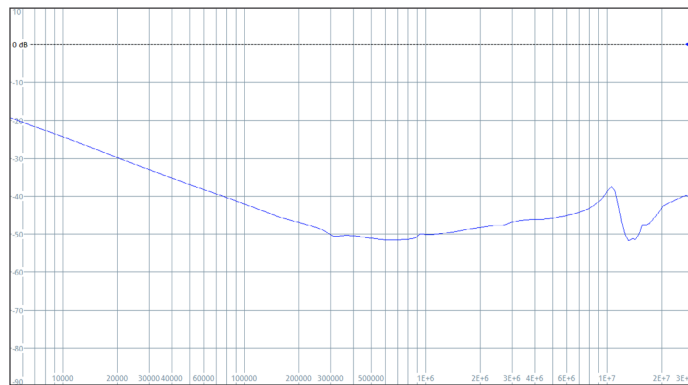
150A



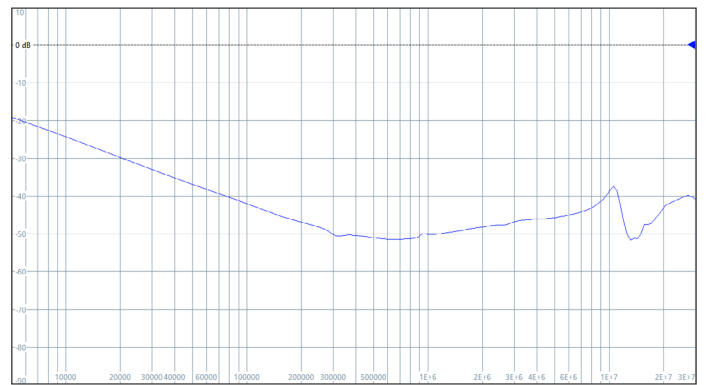
300A



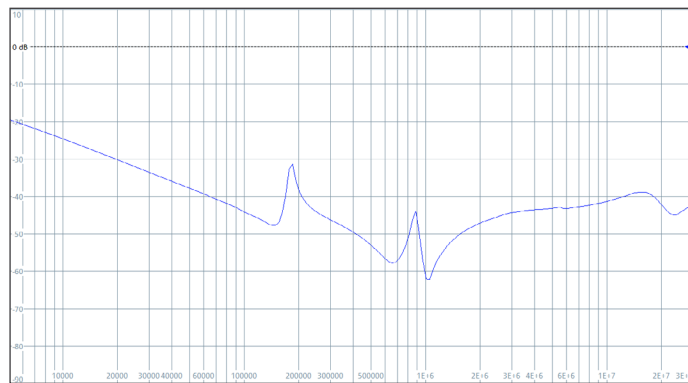
450A



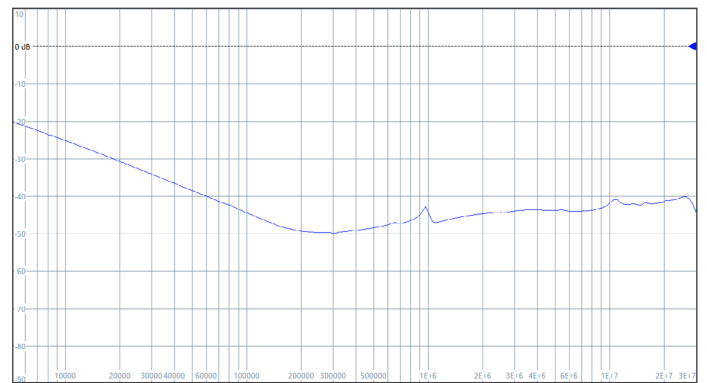
600A



1000A



1600A

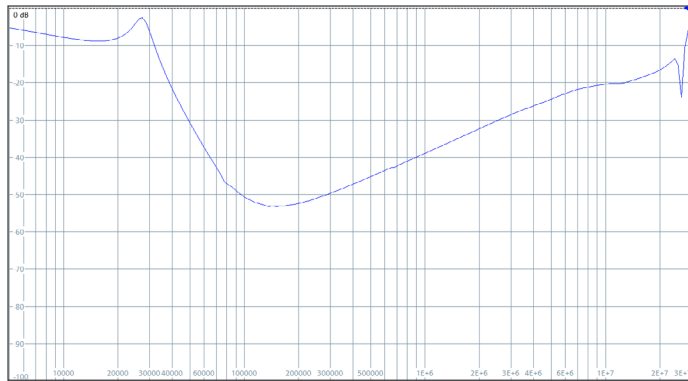




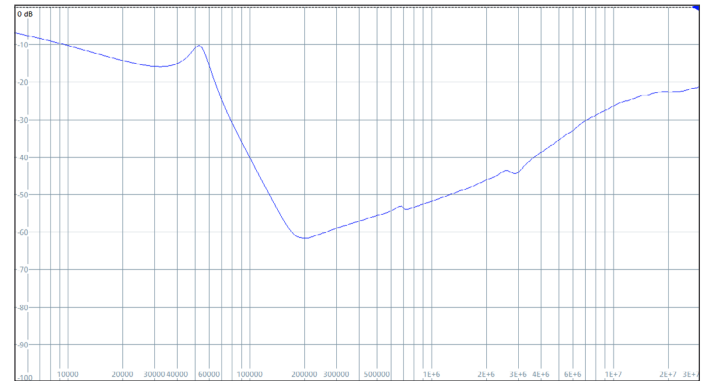
**COMMON MODE INSERTION LOSS FOR 1000V (TYPICAL IN dB) - MEASURED IN CLOSED 50Ω SYSTEM**

**Note:** Model EVX followed by XD Plots are shown below.

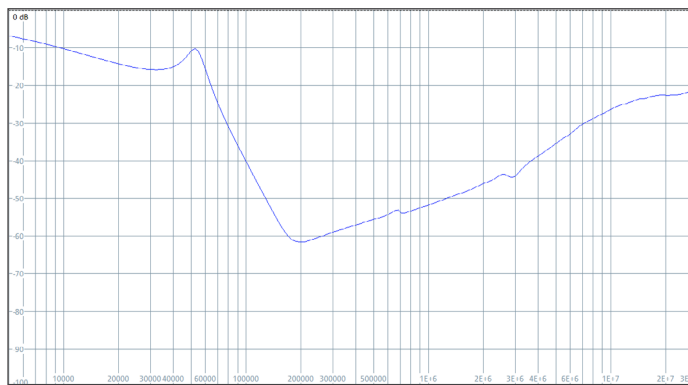
**150A**



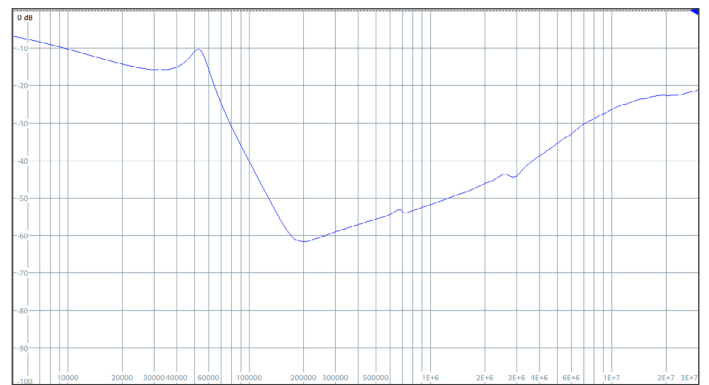
**300A**



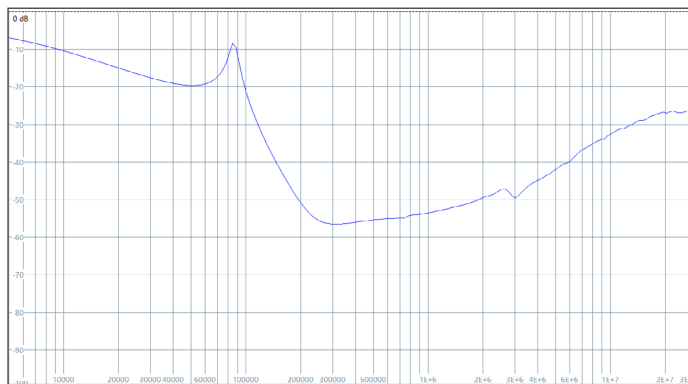
**450A**



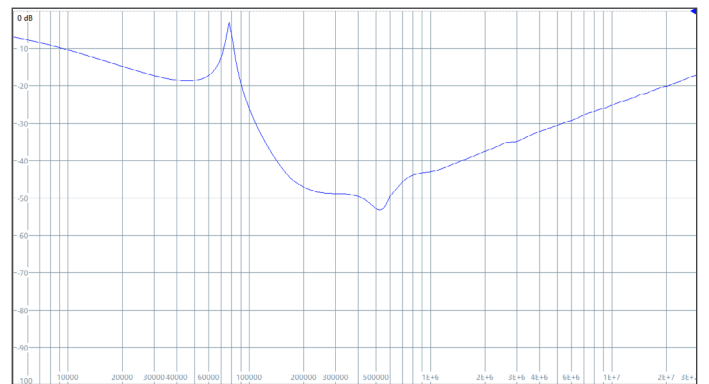
**600A**



**1000A**



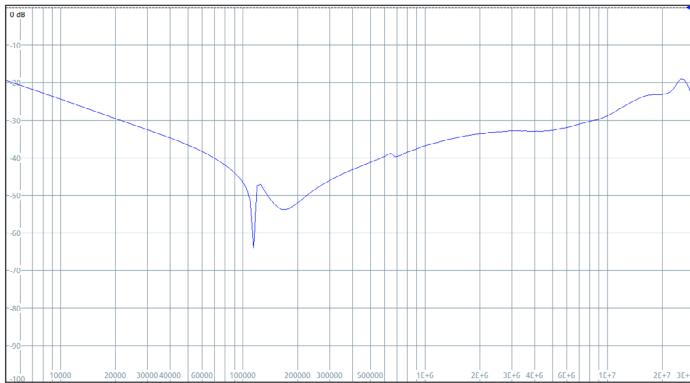
**1600A**



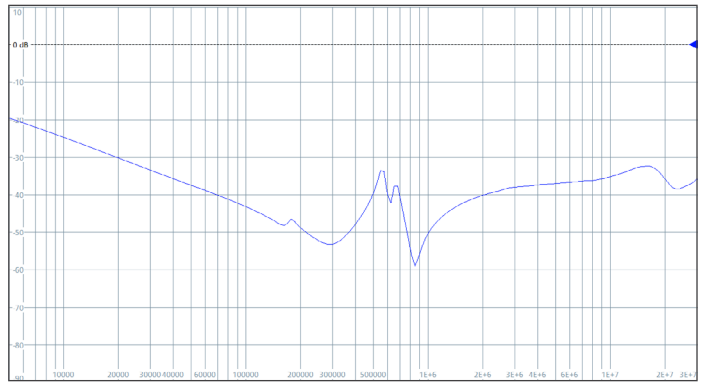
## DIFFERENTIAL MODE INSERTION LOSS FOR 1000V (TYPICAL IN dB) - MEASURED IN CLOSED 50Ω SYSTEM

Note: Model EVX followed by XD Plots are shown below.

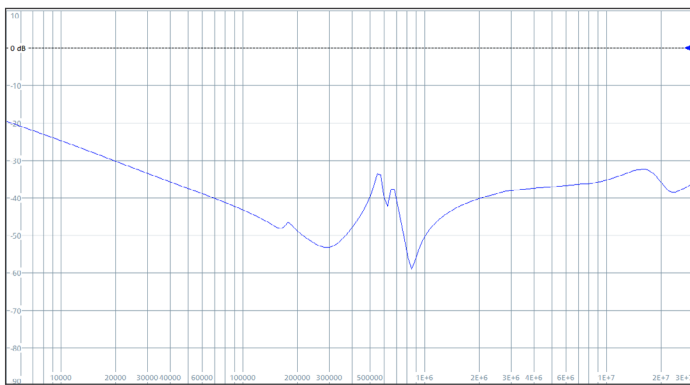
150A



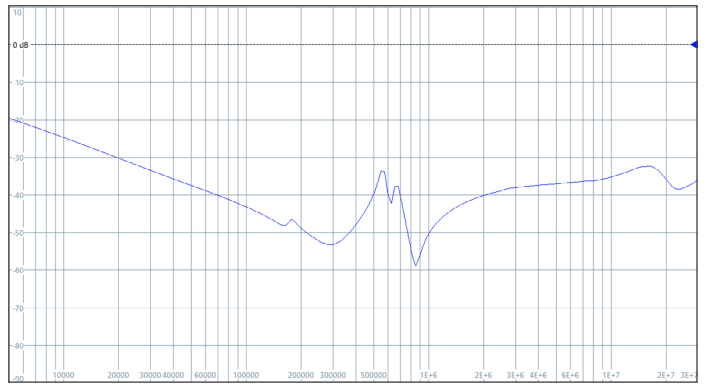
300A



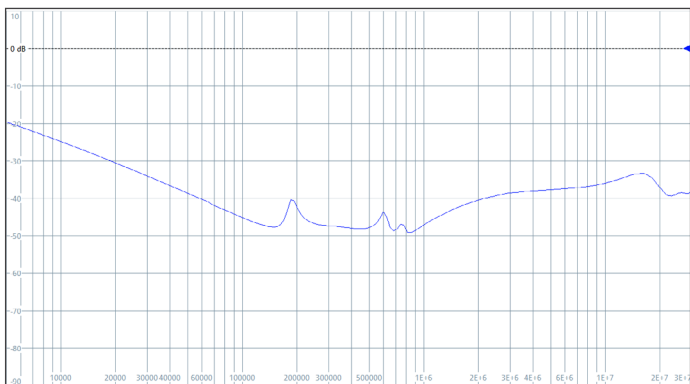
450A



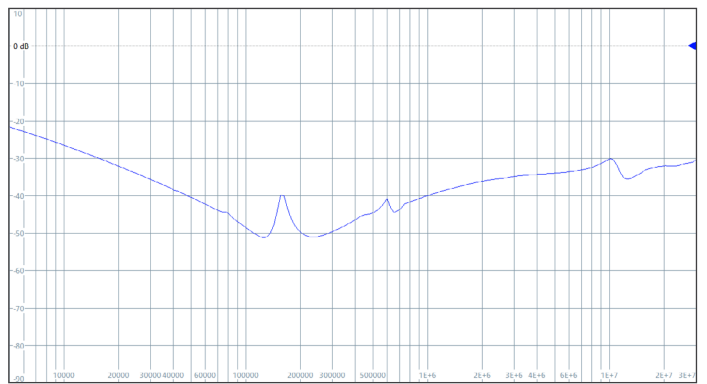
600A



1000A



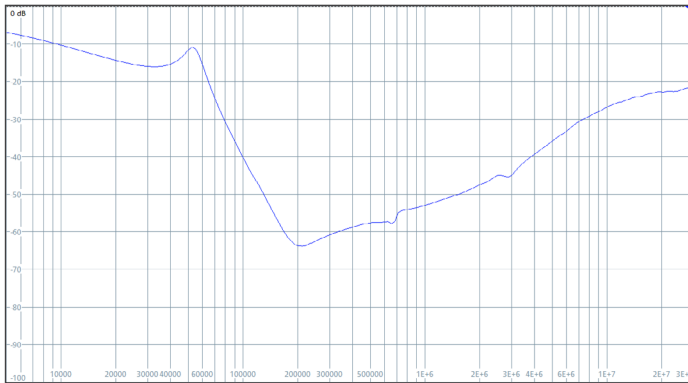
1600A



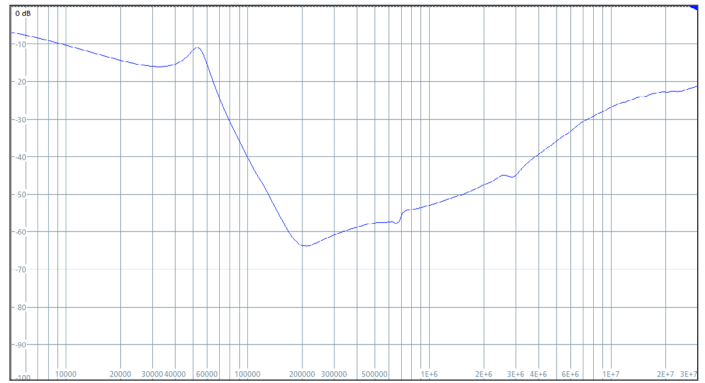
**COMMON MODE INSERTION LOSS FOR 1500V (TYPICAL IN dB) - MEASURED IN CLOSED 50Ω SYSTEMTEM**

**Note:** Model EVX followed by XD Plots are shown below.

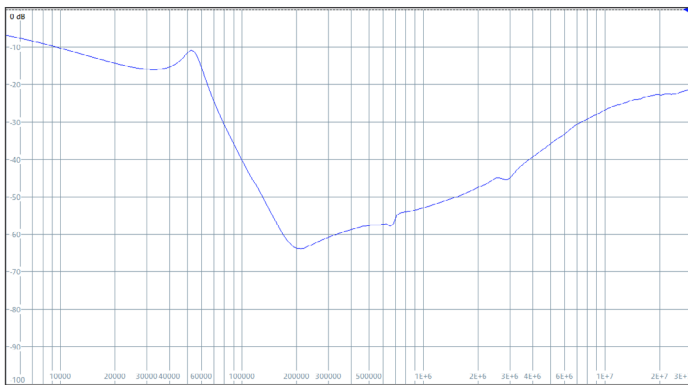
**150A**



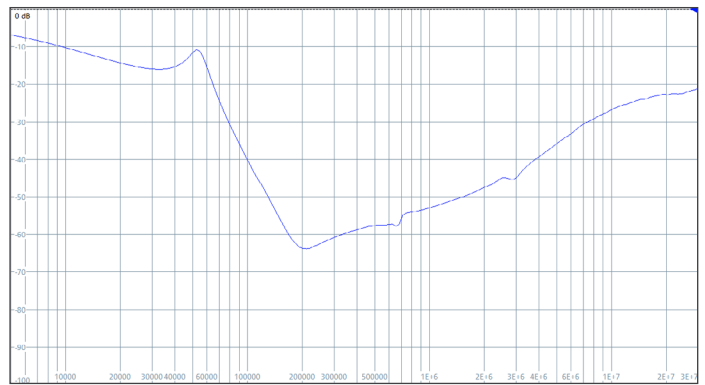
**300A**



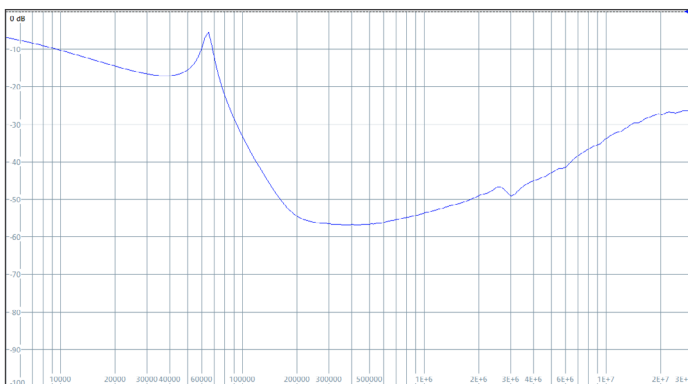
**450A**



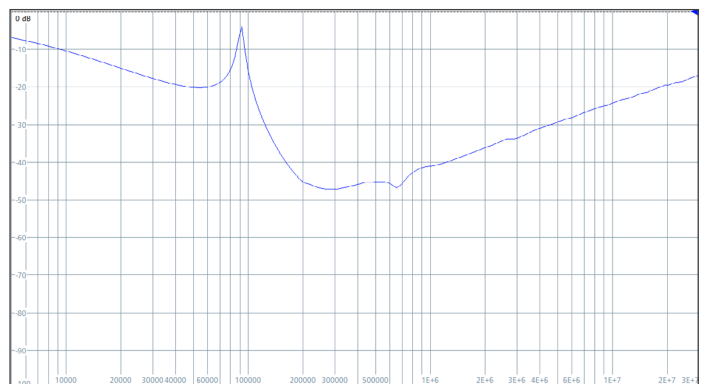
**600A**



**1000A**



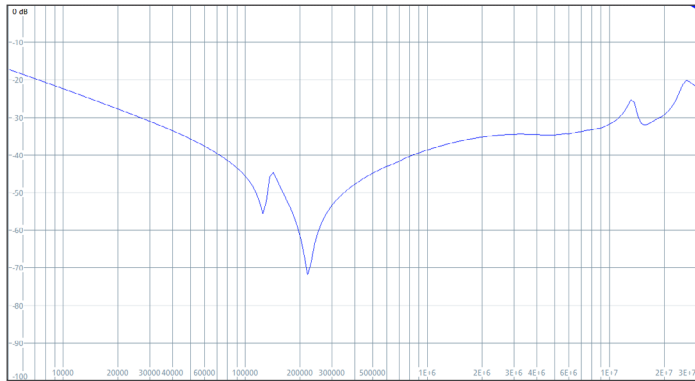
**1600A**



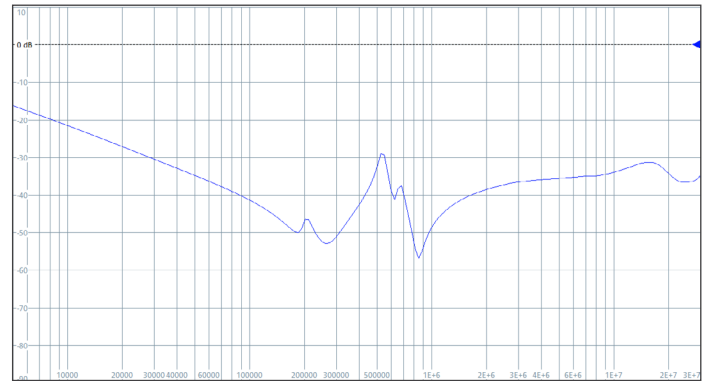
**DIFFERENTIAL MODE INSERTION LOSS FOR 1500V (TYPICAL IN dB) - MEASURED IN CLOSED 50Ω SYSTEM**

**Note:** Model EVX followed by XD Plots are shown below.

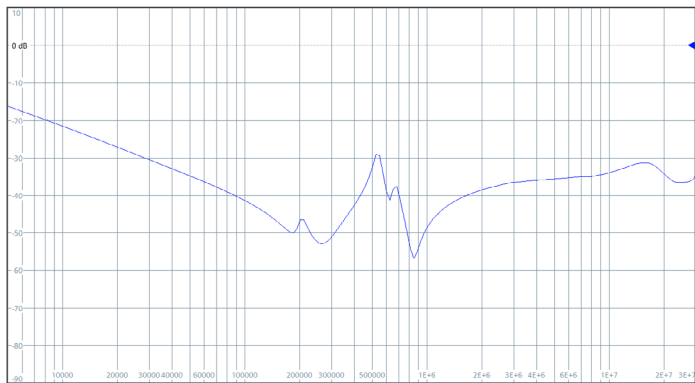
**150A**



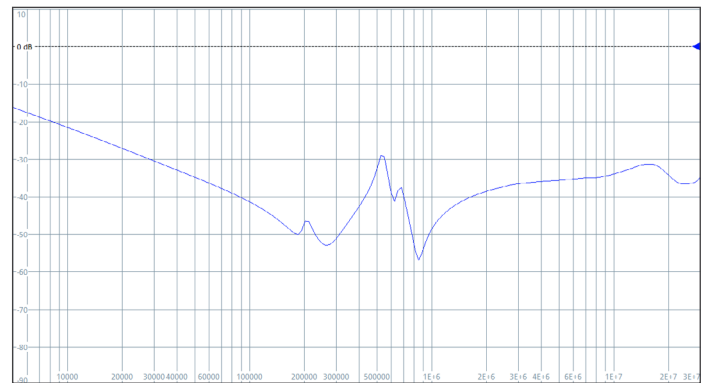
**300A**



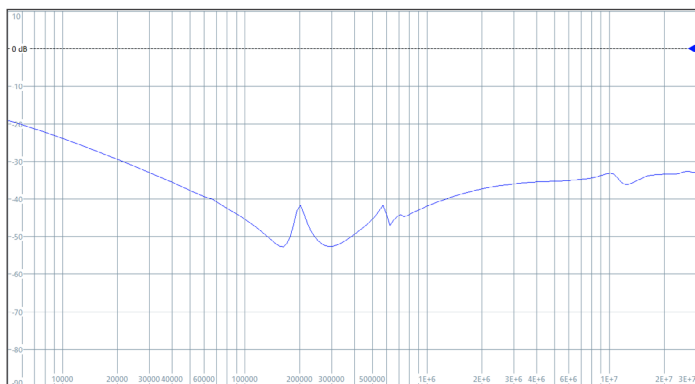
**450A**



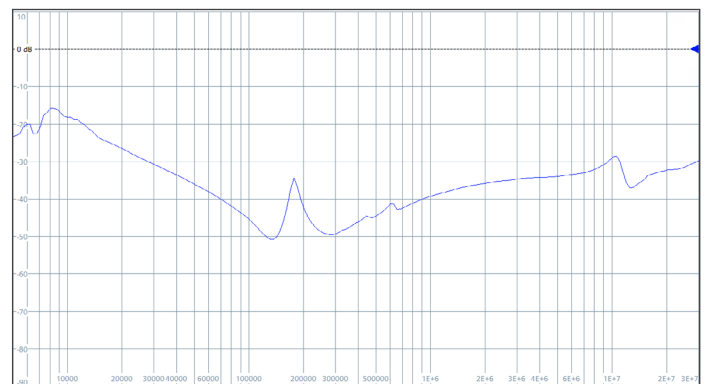
**600A**



**1000A**



**1600A**

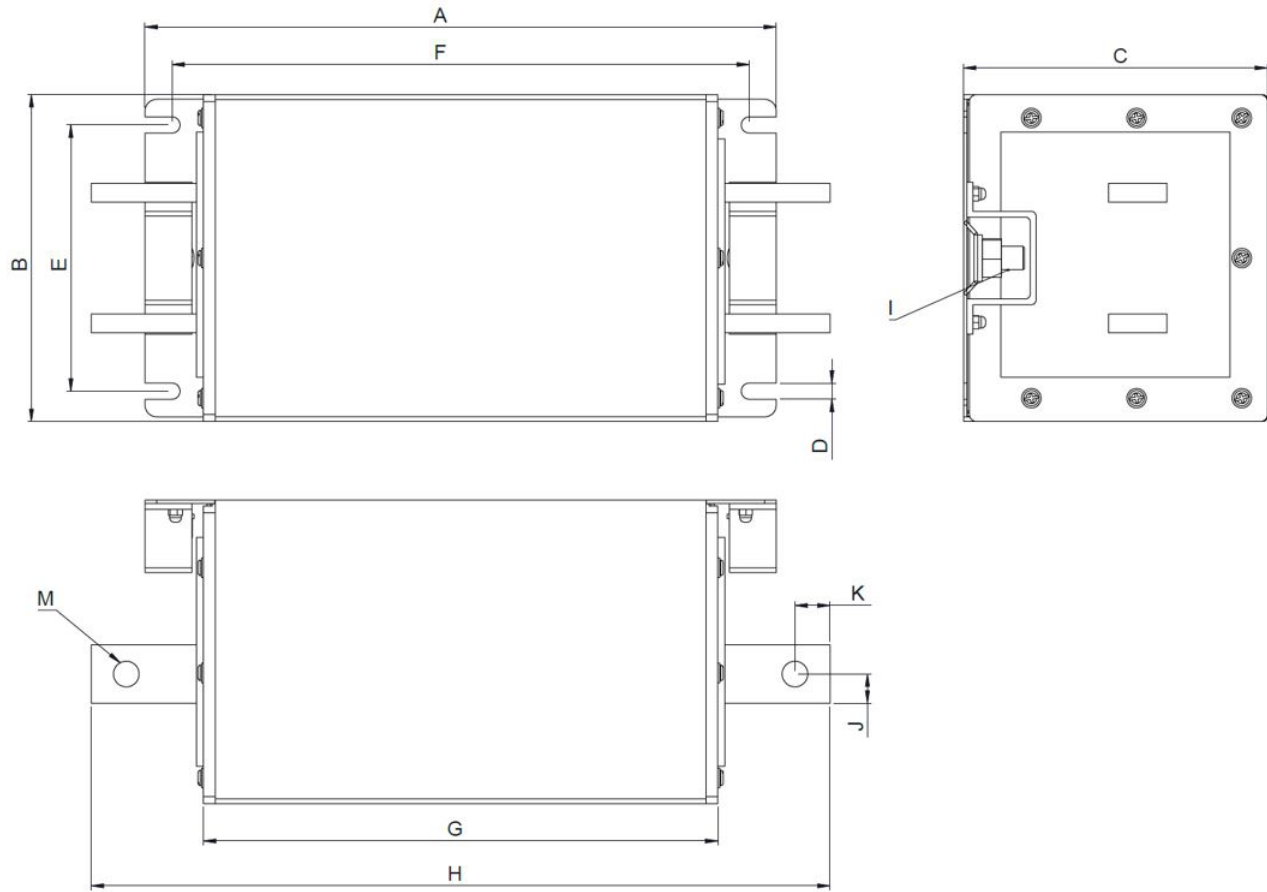


# EVX SERIES

## DC FILTER FOR EV APPLICATION

### CASE DIMENSIONS

#### BUS BAR TERMINAL



Current Rating	A	B	C	D	E	F	G	H	I	J	K	M
150A	200	122	128	7	95	187	145	245	M10	12.5	15	9
300A	200	122	128	7	95	187	145	245	M10	12.5	15	11
450A	200	122	128	7	95	187	150	250	M10	12.5	15	11
600A	200	122	128	7	95	187	150	250	M10	12.5	15	11
1000A	250	140	130	7	114	227	200	300	M10	20	15	11
1600A	270	140	130	7	114	247	220	320	M10	30	15	11(2)

# EVX SERIES

## DC FILTER FOR EV APPLICATION

### PRODUCT SELECTION INFORMATION

S.No	TE Part Number	TE Description
1	2443552-1	150 EVX A A
2	2443552-2	150 EVX A B
3	2443552-3	150 EVX A C
4	2443552-4	150 EVX A D
5	2443552-5	300 EVX A A
6	2443552-6	300 EVX A B
7	2443552-7	300 EVX A C
8	2443552-8	300 EVX A D
9	2443552-9	450 EVX A A
10	1-2443552-0	450 EVX A B
11	1-2443552-1	450 EVX A C
12	1-2443552-2	450 EVX A D
13	1-2443552-3	600 EVX A A
14	1-2443552-4	600 EVX A B
15	1-2443552-5	600 EVX A C
16	1-2443552-6	600 EVX A D
17	1-2443552-7	1000 EVX A A
18	1-2443552-8	1000 EVX A B
19	1-2443552-9	1000 EVX A C
20	2-2443552-0	1000 EVX A D
21	2-2443552-1	1600 EVX A A
22	2-2443552-2	1600 EVX A B
23	2-2443552-3	1600 EVX A C
24	2-2443552-4	1600 EVX A D
25	2443554-1	150 EVX B A
26	2443554-2	150 EVX B B
27	2443554-3	150 EVX B C
28	2443554-4	150 EVX B D
29	2443554-5	300 EVX B A
30	2443554-6	300 EVX B B
31	2443554-7	300 EVX B C
32	2443554-8	300 EVX B D
33	2443554-9	450 EVX B A
34	1-2443554-0	450 EVX B B
35	1-2443554-1	450 EVX B C
36	1-2443554-2	450 EVX B D

S.No	TE Part Number	TE Description
37	1-2443554-3	600 EVX B A
38	1-2443554-4	600 EVX B B
39	1-2443554-5	600 EVX B C
40	1-2443554-6	600 EVX B D
41	1-2443554-7	1000 EVX B A
42	1-2443554-8	1000 EVX B B
43	1-2443554-9	1000 EVX B C
44	2-2443554-0	1000 EVX B D
45	2-2443554-1	1600 EVX B A
46	2-2443554-2	1600 EVX B B
47	2-2443554-3	1600 EVX B C
48	2-2443554-4	1600 EVX B D
49	2443555-1	150 EVX C A
50	2443555-2	150 EVX C B
51	2443555-3	150 EVX C C
52	2443555-4	150 EVX C D
53	2443555-5	300 EVX C A
54	2443555-6	300 EVX C B
55	2443555-7	300 EVX C C
56	2443555-8	300 EVX C D
57	2443555-9	450 EVX C A
58	1-2443555-0	450 EVX C B
59	1-2443555-1	450 EVX C C
60	1-2443555-2	450 EVX C D
61	1-2443555-3	600 EVX C A
62	1-2443555-4	600 EVX C B
63	1-2443555-5	600 EVX C C
64	1-2443555-6	600 EVX C D
65	1-2443555-7	1000 EVX C A
66	1-2443555-8	1000 EVX C B
67	1-2443555-9	1000 EVX C C
68	2-2443555-0	1000 EVX C D
69	2-2443555-1	1600 EVX C A
70	2-2443555-2	1600 EVX C B
71	2-2443555-3	1600 EVX C C
72	2-2443555-4	1600 EVX C D

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