

Film Capacitors

Series/Type: 91

Metallized PP DC Link Capacitors - Box type

Overview

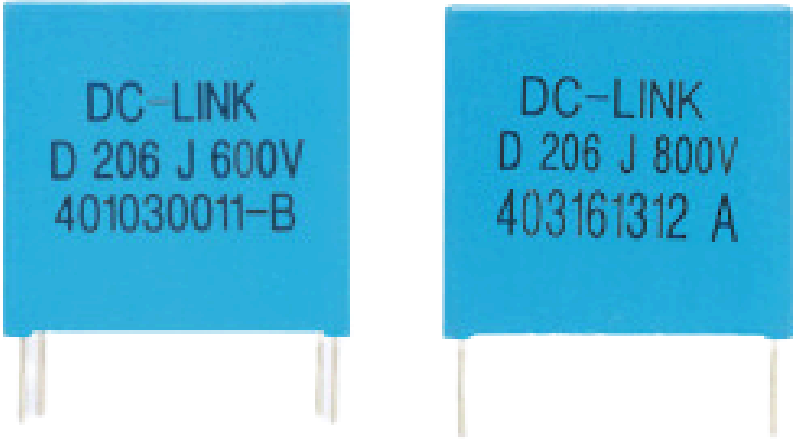
The 91 series capacitor is a polypropylene metallized film capacitor with a rectangular, plastic box-type design, filled with resin, and uses 2 or 4 tinned wires.

Applications

Typical applications include DC filtering, DC link, power electronics, energy storage, renewable energy grid interface, motor drives, and automotive applications.

Benefits

- Compact size
- THB Grade available on request
- Good self-healing property
- Low Losses and high current capability
- Low ESR and ESL
- Low leakage current
- Long useful life



Part Number System

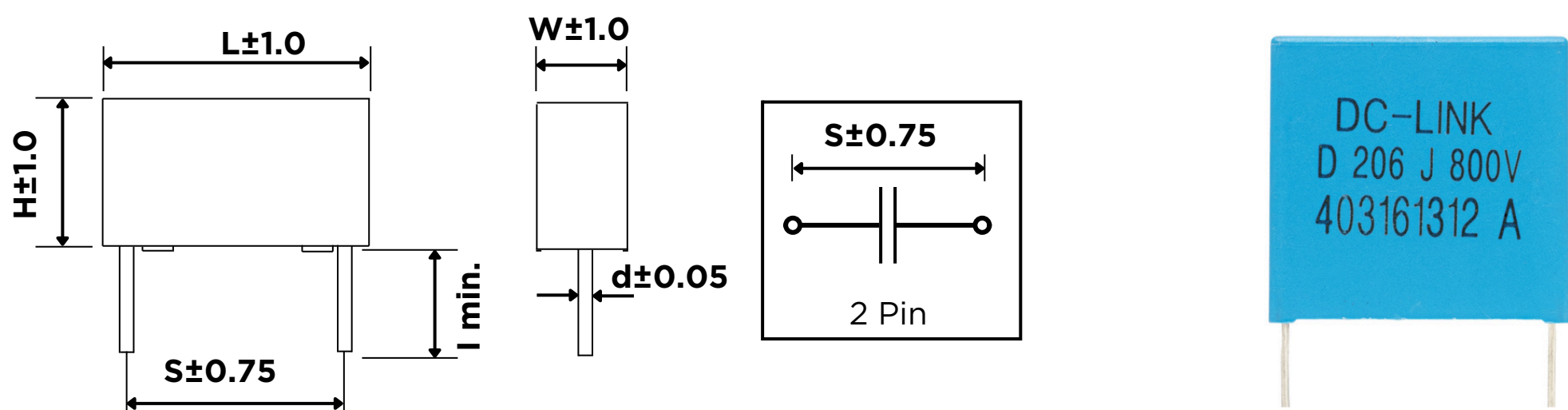
91	106	K	3A	1	A
Series Code	Rated Capacitance Value	Rated Cap. Tolerance	Rated DC Voltage	Packing Type*	Design Reference
DC Link Box Type 2 Pin or 4 Pin	Three-digit (257) indicate rated capacitance in Pico Farad (First two digits indicate value & third digit indicates number of zeroes to be suffixed to first two digits)	J = ±5% K = ±10%	2I - 450 2H - 500 2V - 600 4J - 650 2K - 700 2L - 800 2N - 900 3A - 1000 2O - 1100 2P - 1200 2U - 1300 2X - 1400 3R - 1500 3C - 1600		Internal code

***Packing Type details:**

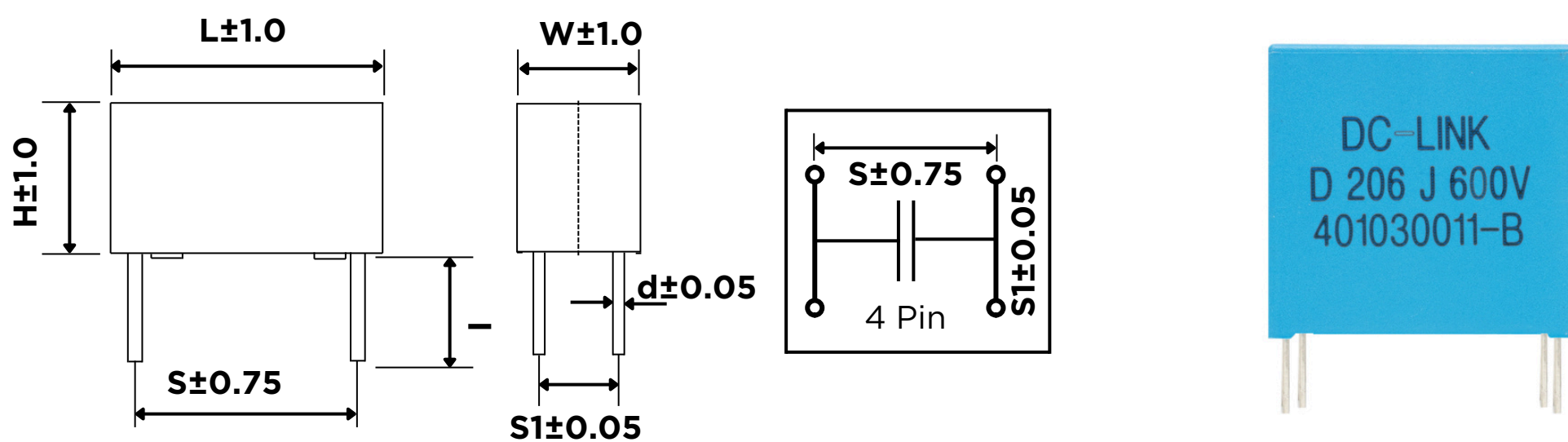
- 1: Bulk packing (original pitch)
- 2: Bulk packing (after forming & cutting)
- 3: Ammo packing (after forming & taping)
- 4: Bulk packing (after forming in original pitch without cut)
- 5: Bulk packing (after formed & without cut)
- 6: Ammo packing (Straight lead)
- 7: Bulk packing (Straight lead cut)
- 8: Reel packing (Straight lead)

Dimensions - in mm

Drawing 2-Pin Version



Drawing 4-Pin Version



For S = 27.5 mm	d = 0.8 mm
For S = 37.5 mm	d = 1.0/1.2 mm
For S = 52.5 mm	d = 1.2 mm

Packing Code	Lead length(l) mm
Long lead	15min.
Lead cut	5.0±1.0

General Technical Data

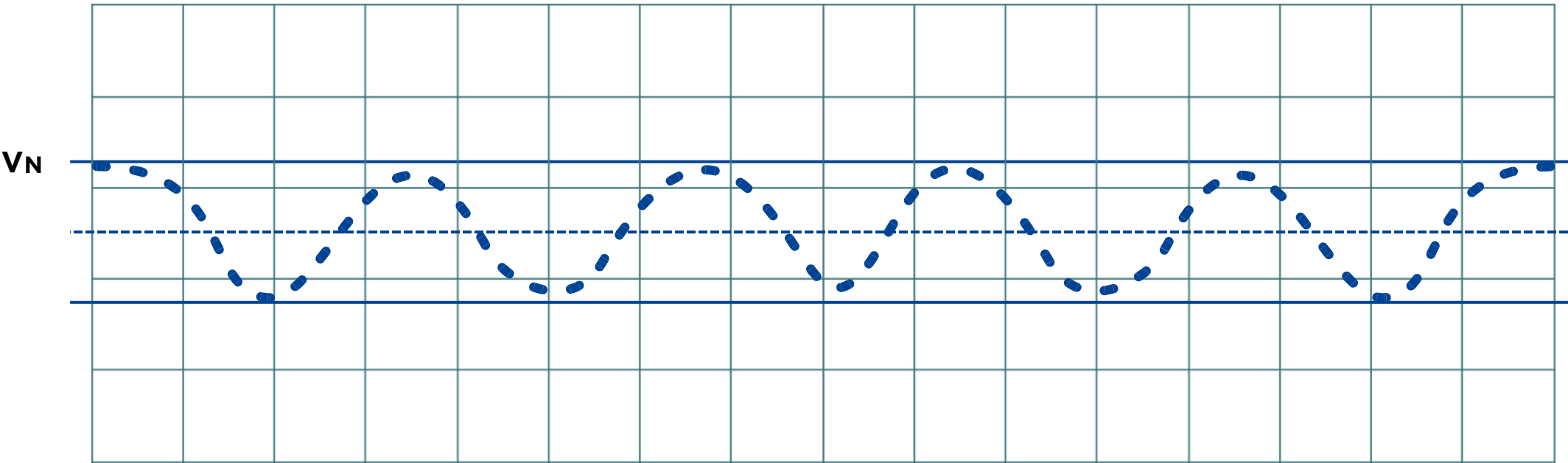
Dielectric	Polypropylene metallized film, non-inductive type, self-healing property
Application	DC filtering, DC link
Climatic Category	40/105/56 IEC 60068-1
Temperature Range	-40°C to +105°C (+85°C to +105°C de-rating voltage)
Endurance Test - IEC 61071	500 hours at 1.3 x VNdc at 85°C 1.4 x Ipk 1000 cycles 500 hours at 1.3 x VNdc at 85°C
Standard	IEC 61071
Protection	Solvent resistant plastic case UL 94 V-0 compliant Thermosetting Epoxy resin sealing UL 94 V-0 compliant
Installation	Any position
Leads	Tinned wires
Packaging	Packed in cardboard trays with protection for the terminals
RoHS Compliance	

Electrical Parameters

Rated Capacitance Range	0.5 μ F to 130 μ F
Rated Voltage (VN DC) Range	450V to 1600V
Capacitance Tolerance	$\pm$ 5% (J), $\pm$ 10% (K) measured at T = +25°C $\pm$ 5°C
Insulation resistance Rins given as time constant τ = CR. Rins	τ > 10,000 s (60 s) at 100V for Vn < 500V at 500V for Vn $\geq$ 500V
Voltage proof test between terminals	1.5x VN DC, 10s
Voltage proof test between terminal and case	3000 VAC, 50Hz, 10s
Altitude	max. 2000m
*Biased Humidity Test	Condition 1: 40°C/93%RH/1000Hours with Rated voltage applied Condition 2: 60°C/95%RH/1000Hours with Rated Voltage applied

* Available on request

Typical Waveforms



*Note 1: If intended to use this in a different type of application, please contact us and share your waveform.

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Cap value	dimensions w x h x l mm	S mm	S1 mm	Irms ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
450VDC									
3.5	9x18x32	27.5	-	4.2	16.0	11.8	0.001	0.01	91 355 J 2I 1 *
5.5	11x21x32	27.5	-	6.0	11.0	14.0	0.001	0.01	91 555 J 2I 1 *
6.5	12.5x21.5x32	27.5	-	6.5	8.8	15.0	0.001	0.01	91 655 J 2I 1 *
8.0	13.5x23x32	27.5	-	7.0	8.0	16.0	0.001	0.01	91 805 J 2I 1 *
12.0	18x27.5x32	27.5	-	8.0	7.0	17.0	0.001	0.01	91 126 J 2I 1 *
15.0	18x33x32	27.5	-	8.5	6.0	18.0	0.001	0.01	91 156 J 2I 1 *
16.0	18x33x32	27.5	-	10.0	6.0	19.0	0.001	0.01	91 166 J 2I 1 *
22.0	22x36.5x32	27.5	-	11.5	5.0	21.0	0.001	0.01	91 226 J 2I 1 *
35.0	20x40x42	37.5	10.2	12.5	4.9	22.0	0.002	0.02	91 356 J 2I 1 *
40.0	28x37x42	37.5	10.2	14.0	4.5	23.0	0.002	0.02	91 406 J 2I 1 *
45.0	28x37x42	37.5	10.2	14.5	4.3	13.0	0.002	0.02	91 456 J 2I 1 *
50.0	24x44x42	37.5	10.2	16.0	4.0	14.0	0.002	0.02	91 506 J 2I 1 *
55.0	28x42.5x42	37.5	10.2	17.2	3.5	13.0	0.002	0.02	91 556 J 2I 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	Irms ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
60.0	30x45x42	37.5	20.3	19.5	3.0	14.0	0.002	0.02	91 606 J 2I 1 *
70.0	33x48x42	37.5	20.3	22.3	2.8	15.0	0.002	0.02	91 706 J 2I 1 *
75.0	30x45x57.5	52.5	20.3	22.7	2.7	16	0.002	0.02	91 756 K 2I 7 A
75.0	30x45x57.5	52.5	20.3	22.7	2.7	16	0.002	0.02	91 756 J 2I 7 A
80.0	30x45x57.5	52.5	20.3	24.0	2.5	16.8	0.002	0.02	91 806 J 2I 1 *
85.0	30x45x57.5	52.5	20.3	24.8	2.2	17.0	0.003	0.03	91 856 J 2I 1 *
100.0	35x50x57.5	52.5	20.3	25.0	2.1	18.0	0.003	0.03	91 107 J 2I 1 *
110.0	35x50x57.5	52.5	20.3	19.0	4.5	15.0	0.004	0.04	91 117 J 2I 1 *
130.0	38x57.5x57.5	52.5	20.3	22.0	3.8	16.5	0.004	0.04	91 137 J 2I 1 *
150.0	45X65X57.5	52.5	20.3	25.0	3.5	17.0	0.004	0.04	91 157 J 2I 1 *
170.0	45X65X57.5	52.5	20.3	28.0	3.2	18.0	0.004	0.04	91 177 J 2I 1 *
210.0	45X65X57.5	52.5	20.3	31.0	2.8	20.0	0.004	0.04	91 217 J 2I 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
500VDC									
3.3	9x18x32	27.5	-	4.2	16.0	11.8	0.001	0.01	91 335 J 2H 1 *
5.0	13x23x32	27.5	-	6.0	11.0	14.0	0.001	0.01	91 505 J 2H 1 *
6.0	12.5x21.5x32	27.5	-	6.5	8.8	15.0	0.001	0.01	91 605 J 2H 1 *
7.0	13.5x23x32	27.5	-	7.0	8.0	16.0	0.001	0.01	91 705 J 2H 1 *
8.0	14x24.5x32	27.5	-	8.0	7.0	17.0	0.001	0.01	91 805 J 2H 1 *
10.0	15x24.5x32	27.5	-	8.5	6.0	18.0	0.001	0.01	91 106 J 2H 1 *
12.0	18x27.5x32	27.5	-	10.0	6.0	19.0	0.001	0.01	91 126 J 2H 1 *
15.0	18x33x32	27.5	-	11.5	5.0	21.0	0.001	0.01	91 156 J 2H 1 *
18.0	18x33x32	27.5	-	12.5	4.9	22.0	0.002	0.02	91 186 J 2H 1 *
22.0	22x36.5x32	27.5	-	14.0	4.5	23.0	0.002	0.02	91 226 J 2H 1 *
30.0	20x40x42	37.5	-	14.5	4.3	13.0	0.002	0.02	91 306 J 2H 1 *
35.0	28x37x42	37.5	10.2	16.0	4.0	14.0	0.002	0.02	91 356 J 2H 1 *
40.0	28x37x42	37.5	10.2	17.2	3.5	13.0	0.002	0.02	91 406 J 2H 1 *
50.0	28x42.5x42	37.5	10.2	19.5	3.0	14.0	0.002	0.02	91 506 J 2H 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	Irms, ¹ max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
60.0	30x45x42	37.5	20.3	22.3	2.8	15.0	0.002	0.02	91 606 J 2H 1 *
65.0	30x45x42	37.5	20.3	24.0	2.5	16.8	0.002	0.02	91 656 J 2H 1 *
70.0	33x48x42	37.5	20.3	24.8	2.2	17.0	0.003	0.03	91 706 J 2H 1 *
75.0	33x48x42	37.5	20.3	25.0	2.1	18.0	0.003	0.03	91 756 J 2H 1 *
75.0	30x45x57.5	52.5	20.3	18.0	4.6	14.5	0.004	0.04	91 756 J 2H 1 *
80.0	30x45x57.5	52.5	20.3	19.0	4.5	15.0	0.004	0.04	91 806 J 2H 1 *
100.0	35x50x57.5	52.5	20.3	22.0	3.8	16.5	0.004	0.04	91 107 J 2H 1 *
110.0	35x50x57.5	52.5	20.3	23.0	3.5	17.0	0.004	0.04	91 117 J 2H 1 *
120.0	45x65x57.5	52.5	20.3	25.0	3.2	17.2	0.004	0.04	91 127 J 2H 7 H
130.0	38x57.5x57.5	52.5	20.3	27.0	3.0	18.0	0.004	0.04	91 137 J 2H 1 *
150.0	45X65X57.5	52.5	20.3	30.0	2.8	19.0	0.004	0.04	91 157 J 2H 1 *
170.0	45X65X57.5	52.5	20.3	32.5	2.5	19.5	0.004	0.04	91 177 J 2H 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	Irms ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
600VDC									
2.2	9x18x32	27.5	-	3.8	20.0	12.0	0.001	0.01	91 225 J 2V 1 *
4.0	11x21x32	27.5	-	5.5	11.4	14.0	0.001	0.01	91 405 J 2V 1 *
5.0	13.5x23x32	27.5	-	6.5	10.1	16.0	0.001	0.01	91 505 J 2V 1 *
5.0	13x22x32	27.5	-	6.4	10.0	16.5	0.001	0.001	91 505 K 2V 1 V
5.0	13x22x32	27.5	-	6.4	10.0	16.5	0.001	0.001	91 505 K 2V 1 A
5.0	13X22X32	27.5	-	6.9	20.0	17.0	0.001	0.001	91 505 K 2V 7 A
6.0	14x24.5x32	27.5	-	7.2	8.5	17.0	0.001	0.01	91 605 J 2V 1*
7.0	15x24.5x32	27.5	-	7.6	7.9	18.0	0.001	0.01	91 705 J 2V 1 *
8.0	18x27.5x32	27.5	-	8.7	7.0	19.0	0.001	0.01	91 805 J 2V 1 *
9.0	18x27.5x32	27.5	-	9.5	6.5	19.0	0.001	0.01	91 905 J 2V 1 *
10.0	18x33x32	27.5	-	10.0	5.8	21.0	0.001	0.01	91 106 J 2V 1 *
10.0	18x30x32	27.5	-	11.1	11.0	21.0	0.001	0.01	91 106 K 2V 7 D
12.0	18x33x32	27.5	-	11.0	5.0	21.0	0.001	0.01	91 126 J 2V 1 *
15.0	22x36.5x32	27.5	-	13.0	4.5	23.0	0.001	0.01	91 156 J 2V 1 *
25.0	20x40x42	37.5	-	13.9	5.0	13.0	0.002	0.02	91 256 J 2V 1 *
30.0	28x37x42	37.5	10.2	17.0	4.5	14.0	0.002	0.02	91 306 J 2V 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
35.0	28x42.5x42	37.5	10.2	20.0	3.8	15.0	0.002	0.02	91 356 J 2V 1 *
45.0	30x45x42	37.5	20.3	21.0	3.5	16.0	0.002	0.02	91 456 J 2V 1 *
50.0	33x48x42	37.5	20.3	23.0	2.9	17.0	0.002	0.02	91 506 J 2V 1 *
55.0	30x45x57.5	52.5	20.3	17.0	5.5	14.0	0.003	0.03	91 556 J 2V 1 *
60.0	30x45x57.5	52.5	20.3	17.8	5.0	15.0	0.003	0.03	91 606 J 2V 1 *
75.0	35x50x57.5	52.5	20.3	21.5	4.2	17.0	0.004	0.04	91 756 J 2V 1 *
80.0	35x50x57.5	52.5	20.3	22.0	3.8	21.0	0.004	0.04	91 806 J 2V 1 *
90.0	38x57.5x57.5	52.5	20.3	24.1	3.5	22.0	0.004	0.04	91 906 J 2V 1 *
95.0	38X57.5X57.5	52.5	20.3	24.7	3.3	22.0	0.004	0.04	91 956 J 2V 1 *
110.0	45X55X57.5	52.5	20.3	26.8	3.1	23.0	0.004	0.04	91 117 J 2V 1 *
120.0	45X55X57.5	52.5	20.3	28.9	2.9	24.0	0.004	0.04	91 127 J 2V 1 *
140.0	45X65X57.5	52.5	20.3	31.2	2.6	25.0	0.004	0.04	91 147 J 2V 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
650VDC									
2.2	9x18x32	27.5	-	3.8	20.0	12.0	0.001	0.01	91 225 J 2V 1 *
4.0	11x21x32	27.5	-	5.5	11.4	14.0	0.001	0.01	91 405 J 2V 1 *
5.0	13.5x23x32	27.5	-	6.5	10.1	16.0	0.001	0.01	91 505 J 2V 1 *
5.0	13x22x32	27.5	-	6.4	10.0	16.5	0.001	0.001	91 505 K 2V 1 V
5.0	13x22x32	27.5	-	6.4	10.0	16.5	0.001	0.001	91 505 K 2V 1 A
6.0	14x24.5x32	27.5	-	7.2	8.5	17.0	0.001	0.01	91 605 J 2V 1*
7.0	15x24.5x32	27.5	-	7.6	7.9	18.0	0.001	0.01	91 705 J 2V 1 *
8.0	18x27.5x32	27.5	-	8.7	7.0	19.0	0.001	0.01	91 805 J 2V 1 *
9.0	18x27.5x32	27.5	-	9.5	6.5	19.0	0.001	0.01	91 905 J 2V 1 *
10.0	18x33x32	27.5	-	10.0	5.8	21.0	0.001	0.01	91 106 J 2V 1 *
10.0	18x30x32	27.5	-	11.5	6.8	25.0	0.001	0.01	91 106 J 4J 7 O
12.0	18x33x32	27.5	-	11.0	5.0	21.0	0.001	0.01	91 126 J 2V 1 *
15.0	22x36.5x32	27.5	-	13.0	4.5	23.0	0.001	0.01	91 156 J 2V 1 *
25.0	20x40x42	37.5	-	13.9	5.0	13.0	0.002	0.02	91 256 J 2V 1 *
30.0	28x37x42	37.5	10.2	17.0	4.5	14.0	0.002	0.02	91 306 J 2V 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
35.0	28x42.5x42	37.5	10.2	20.0	3.8	15.0	0.002	0.02	91 356 J 2V 1 *
45.0	30x45x42	37.5	20.3	21.0	3.5	16.0	0.002	0.02	91 456 J 2V 1 *
50.0	33x48x42	37.5	20.3	23.0	2.9	17.0	0.002	0.02	91 506 J 2V 1 *
55.0	30x45x57.5	52.5	20.3	17.0	5.5	14.0	0.003	0.03	91 556 J 2V 1 *
60.0	30x45x57.5	52.5	20.3	17.8	5.0	15.0	0.003	0.03	91 606 J 2V 1 *
75.0	35x50x57.5	52.5	20.3	21.5	4.2	17.0	0.004	0.04	91 756 J 2V 1 *
80.0	35x50x57.5	52.5	20.3	22.0	3.8	21.0	0.004	0.04	91 806 J 2V 1 *
90.0	38x57.5x57.5	52.5	20.3	24.1	3.5	22.0	0.004	0.04	91 906 J 2V 1 *
95.0	38X57.5X57.5	52.5	20.3	24.7	3.3	22.0	0.004	0.04	91 956 J 2V 1 *
110.0	45X55X57.5	52.5	20.3	26.8	3.1	23.0	0.004	0.04	91 117 J 2V 1 *
120.0	45X55X57.5	52.5	20.3	28.9	2.9	24.0	0.004	0.04	91 127 J 2V 1 *
140.0	45X65X57.5	52.5	20.3	31.2	2.6	25.0	0.004	0.04	91 147 J 2V 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
700VDC									
1.0	9X18X32	27.5	-	4.0	21.0	13.0	0.001	0.01	91 105 K 2K 1 O
2.2	9x18x32	27.5	-	3.8	20.0	12.0	0.001	0.01	91 225 J 2K 1 *
4.0	11x21x32	27.5	-	5.5	11.4	14.0	0.001	0.01	91 405 J 2K 1 *
5.0	13.5x23x32	27.5	-	6.5	10.1	16.0	0.001	0.01	91 505 J 2K 1 *
5.0	13x22x32	27.5	-	6.4	10.0	16.5	0.001	0.001	91 505 K 2K 1 V
5.0	13x22x32	27.5	-	6.4	10.0	16.5	0.001	0.001	91 505 K 2K 1 A
6.0	14x24.5x32	27.5	-	7.2	8.5	17.0	0.001	0.01	91 605 J 2K 1*
6.0	15X24.5X32	27.5	-	7.25	13.5	18	0.001	0.01	91 605 K 2K 7 A
7.0	15x24.5x32	27.5	-	7.6	7.9	18.0	0.001	0.01	91 705 J 2K 1 *
8.0	18x27.5x32	27.5	-	8.7	7.0	19.0	0.001	0.01	91 805 J 2K 1 *
9.0	18x27.5x32	27.5	-	9.5	6.5	19.0	0.001	0.01	91 905 J 2K 1 *
10.0	18x33x32	27.5	-	10.0	5.8	21.0	0.001	0.01	91 106 J 2K 1 *
10.0	18x30x32	27.5	-	11.5	6.8	25.0	0.001	0.01	91 106 J 4K 7 O
12.0	18x33x32	27.5	-	11.0	5.0	21.0	0.001	0.01	91 126 J 2K 1 *
15.0	22x36.5x32	27.5	-	13.0	4.5	23.0	0.001	0.01	91 156 J 2K 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
18.0	22X37X32	27.5	-	12.6	9.0	12.0	0.002	0.02	91 186 K 2K 7 A
25.0	20x40x42	37.5	-	13.9	5.0	13.0	0.002	0.02	91 256 J 2V 1 *
30.0	28x37x42	37.5	10.2	17.0	4.5	14.0	0.002	0.02	91 306 J 2K 1 *
35.0	28x42.5x42	37.5	10.2	20.0	3.8	15.0	0.002	0.02	91 356 J 2K 1 *
45.0	30x45x42	37.5	20.3	21.0	3.5	16.0	0.002	0.02	91 456 J 2K 1 *
50.0	33x48x42	37.5	20.3	23.0	2.9	17.0	0.002	0.02	91 506 J 2K 1 *
55.0	30x45x57.5	52.5	20.3	17.0	5.5	14.0	0.003	0.03	91 556 J 2K 1 *
60.0	30x45x57.5	52.5	20.3	17.8	5.0	15.0	0.003	0.03	91 606 J 2K 1 *
75.0	35x50x57.5	52.5	20.3	21.5	4.2	17.0	0.004	0.04	91 756 J 2K 1 *
80.0	35x50x57.5	52.5	20.3	22.0	3.8	21.0	0.004	0.04	91 806 J 2K 1 *
90.0	38x57.5x57.5	52.5	20.3	24.1	3.5	22.0	0.004	0.04	91 906 J 2K 1 *
95.0	38X57.5X57.5	52.5	20.3	24.7	3.3	22.0	0.004	0.04	91 956 J 2K 1 *
110.0	45X55X57.5	52.5	20.3	26.8	3.1	23.0	0.004	0.04	91 117 J 2K 1 *
120.0	45X55X57.5	52.5	20.3	28.9	2.9	24.0	0.004	0.04	91 127 J 2K 1 *
140.0	45X65X57.5	52.5	20.3	31.2	2.6	25.0	0.004	0.04	91 147 J 2K 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
800VDC									
2.0	9x18x32	27.5	-	3.4	21.0	12.0	0.001	0.01	91 205 J 2L 1 *
3.0	11x21x32	27.5	-	5.0	14.0	14.0	0.001	0.01	91 305 J 2L 1 *
4.0	13.5x23x32	27.5	-	6.2	10.5	16.0	0.001	0.01	91 405 J 2L 1 *
5.0	14x24.5x32	27.5	-	7.0	9.0	17.0	0.001	0.01	91 505 J 2L 1 *
6.0	16x30x32	27.5	-	8.0	7.8	20.0	0.001	0.01	91 605 J 2L 1 *
7.0	16x30x32	27.5	-	8.5	6.5	20.0	0.001	0.01	91 705 J 2L 1 *
8.0	18x33x32	27.5	-	10.0	6.3	21.0	0.001	0.01	91 805 J 2L 1 *
9.0	18x33x32	27.5	-	10.2	5.8	21.0	0.001	0.01	91 905 J 2L 1 *
10.0	21x31x32	27.5	-	11.0	5.5	21.0	0.001	0.01	91 106 J 2L 1 *
10.0	22x37x32	27.5	-	12.0	10.0	21.0	0.001	0.01	91 106 J 2L 1 E
10.0	22x37x32	27.5	-	12.0	10.0	21.0	0.001	0.01	91 106 J 2L 7 A
12.0	22x36.5x32	27.5	-	12.0	5.0	21.0	0.001	0.01	91 126 J 2L 1 *
14.0	22x36.5x32	27.5	-	12.5	4.7	23.0	0.001	0.01	91 146 J 2L 1 *
14.0	18x32.5x42	37.5	-	10.5	6.5	20.0	0.002	0.02	91 146 J 2L 1 A
15.0	20x40x42	37.5	10.3	12.0	6.0	13.0	0.002	0.02	91 156 J 2L 1 *
20.0	28x37x42	37.5	10.2	14.0	5.0	14.0	0.002	0.02	91 206 J 2L 1 C

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
25.0	28x42.5x42	37.5	10.2	16.5	4.5	15.0	0.002	0.02	91 256 J 2L 1 *
30.0	30x45x42	37.5	20.3	19.0	4.0	15.5	0.002	0.02	91 306 J 2L 1 *
35.0	33x48x42	37.5	20.3	21.0	3.5	16.5	0.002	0.02	91 356 J 2L 1 *
40.0	35x50x42	37.5	20.3	22.0	4.0	17.0	0.003	0.03	91 406 J 2L 7 B
45.0	30x45x57.5	52.5	20.3	17.0	6.0	15.0	0.003	0.03	91 456 J 2L 1 *
50.0	30x45x57.5	52.5	20.3	17.5	5.5	15.0	0.003	0.03	91 506 J 2L 1 *
56.0	35x50x57.5	52.5	20.3	23.0	5.0	16.0	0.003	0.03	91 566 J 2L 1 *
60.0	35x50x57.5	52.5	20.3	20.5	4.6	17.0	0.003	0.03	91 606 J 2L 1 *
100.0	45x65x57.5	52.5	20.3	26	3.0	21.0	0.003	0.03	91 107 J 2L 1 *
110.0	45X65X57.5	52.5	20.3	29.3	2.8	21.0	0.003	0.03	91 117 J 2L 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
900VDC									
2.5	12.5x21.5x32	27.5	-	5.4	14.5	15.0	0.001	0.01	91 255 J 2N 1 *
3.0	13.5x23x32	27.5	-	5.6	13.0	16.0	0.001	0.01	91 305 J 2N 1 *
4.0	15x24.5x32	27.5	-	6.6	10.0	17.0	0.001	0.01	91 405 J 2N 1 *
5.0	16x30x32	27.5	-	7.5	8.0	20.0	0.001	0.01	91 505 J 2N 1 *
6.0	18x33x32	27.5	-	9.5	7.0	21.0	0.001	0.01	91 605 J 2N 1 *
7.0	21x31x32	27.5	-	10.0	6.2	21.0	0.001	0.01	91 705 J 2N 1 *
10.0	22x36.5x32	27.5	-	12.5	5.0	23.0	0.001	0.01	91 106 J 2N 1 *
15.0	20x40x42	37.5	10.2	12.5	6.2	12.5	0.002	0.02	91 156 J 2N 1 *
18.0	28x37x42	37.5	10.2	14.5	5.2	13.0	0.002	0.02	91 186 J 2N 1 *
20.0	28x37x42	37.5	10.2	15.3	4.9	14.0	0.002	0.02	91 206 J 2N 1 *
22.0	28x42.5x42	37.5	10.2	16.5	4.5	15.0	0.002	0.02	91 226 J 2N 1 *
25.0	30x45x42	37.5	20.3	17.2	4.0	17.0	0.002	0.02	91 256 J 2N 1 *
35.0	30x45x57.5	52.5	20.3	16.0	6.0	15.0	0.003	0.03	91 356 J 2N 1 *
45.0	35x50x57.5	52.5	20.3	19.0	5.8	17.0	0.003	0.03	91 456 J 2N 1 *
50.0	35x50x57.5	52.5	20.3	22.0	5.5	19.0	0.003	0.03	91 506 K 2N 7 A

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
60.0	45x45x57.5	52.5	20.3	23.5	4.8	19.2	0.003	0.03	91 606 J 2N 7 H
65.0	45x45x57.5	52.5	20.3	26	4.3	20.5	0.003	0.03	91 656 J 2N 1 *
70.0	45x57x57.5	52.5	20.3	30.5	3.8	21	0.003	0.03	91 706 K 2N 7 A
85.0	45x65x57.5	52.5	20.3	32	3.5	22	0.003	0.03	91 856 J 2N 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
1000VDC									
2.0	12.5x21.5x32	27.5	-	5.0	16.0	15.0	0.001	0.01	91 205 J 3A 1 *
3.0	15x24.5x32	27.5	-	6.5	11.0	17.0	0.001	0.01	91 305 J 3A 1 *
4.0	16x30x32	27.5	-	7.5	8.5	20.0	0.001	0.01	91 405 J 3A 1 *
5.0	18x33x32	27.5	-	9.1	7.0	21.0	0.001	0.01	91 505 J 3A 1 *
6.0	18x33x32	27.5	-	8.9	6.5	22.0	0.001	0.01	91 605 K 3A 1 A
7.0	22x36x32	27.5	-	11.5	5.5	23.0	0.001	0.01	91 705 J 3A 1 *
8.0	22x36.5x32	27.5	-	12.0	5.2	23.0	0.001	0.01	91 805 J 3A 1 *
12.0	20x40x42	37.5	10.2	12.5	6.5	13.5	0.002	0.02	91 126 J 3A 1 *
14.0	28x37x42	37.5	10.2	13.5	5.5	14.0	0.002	0.02	91 146 J 3A 1 *
15.0	24x44x42	37.5	10.2	14.5	5.1	15.0	0.001	0.01	91 156 J 3A 1 *
16.0	28x42.5x42	37.5	10.2	15.0	5.0	15.5	0.002	0.02	91 166 J 3A 1 *
20.0	30x45x42	37.5	20.3	17.5	4.2	16.0	0.002	0.02	91 206 J 3A 1 *
22.0	30x45x42	37.5	20.3	19.5	4.0	17.0	0.002	0.01	91 226 J 3A 1 *
25.0	30x45x57.5	52.5	20.3	14.2	7.5	14.5	0.003	0.03	91 256 J 3A 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	Irms ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
30.0	30x45x57.5	52.5	20.3	15.4	6.5	15.0	0.003	0.03	91 306 J 3A 1 *
35.0	35x50x57.5	52.5	20.3	17.8	5.5	16.0	0.003	0.03	91 356 J 3A 1 *
40.0	35x50x57.5	52.5	20.3	19.0	5.1	17.0	0.003	0.03	91 406 J 3A 1 *
45.0	38X57.5X57.5	52.5	20.3	21.3	4.7	18.0	0.003	0.03	91 456 J 3A 1 *
50.0	38X57.5X57.5	52.5	20.3	22.2	4.2	19.0	0.003	0.03	91 506 J 3A 1 *
55.0	45X55X57.5	52.5	20.3	24.2	3.8	20.0	0.003	0.03	91 556 J 3A 1 *
58.0	45X57X57.5	52.5	20.3	25.5	3.5	22.0	0.003	0.03	91 586 J 3A 1 *
65.0	45X65X57.5	52.5	20.3	27.5	3.2	22.0	0.003	0.030	91 656 J 3A 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
1100VDC									
1.0	11x19x32	27.5	-	3.5	27.0	12.0	0.001	0.01	91 105 J 20 1 *
1.5	12.5x21.5x32	27.5	-	4.5	19.0	15.0	0.001	0.01	91 155 J 20 1 *
2.0	13.5x23x32	27.5	-	5.5	14.5	16.0	0.001	0.01	91 205 J 20 1 *
3.0	16x30x32	27.5	-	7.0	10.0	20.0	0.001	0.01	91 305 J 20 1 *
4.0	18x33x32	27.5	-	8.6	7.9	21.0	0.001	0.01	91 405 J 20 1 *
5.0	18x33x32	27.5	-	10.0	6.5	22.0	0.001	0.01	91 505 J 20 1 *
6.0	22x36x32	27.5	-	11.5	5.6	23.0	0.001	0.01	91 605 J 20 1 *
8.0	20x40x42	37.5	10.2	10.2	8.5	13.0	0.002	0.02	91 805 J 20 1 *
10.0	28x37x42	37.5	10.2	12.5	7.0	14.0	0.002	0.02	91 106 J 20 1 *
12.0	24x44x42	37.5	10.2	13.5	5.9	15.0	0.002	0.02	91 126 J 20 1 *
15.0	30x45x42	37.5	20.3	16.0	5.0	16.0	0.002	0.02	91 156 J 20 1 *
16.0	30x45x42	37.5	20.3	17.0	4.5	17.0	0.002	0.02	91 166 J 20 1 *
20.0	33x48x42	37.5	20.3	19.5	4.0	117.5	0.002	0.02	91 206 J 20 1 *
22.0	30x45x57.5	52.5	20.3	14.0	7.6	14.5	0.003	0.03	91 226 J 20 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	Irms ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
25.0	30x45x57.5	52.5	20.3	14.9	7.0	15.0	0.003	0.03	91 256 J 2O 1 *
27.0	35x50x57.5	52.5	20.3	16.7	6.5	16.0	0.003	0.03	91 276 J 2O 1 *
30.0	35x50x57.5	52.5	20.3	18.0	5.5	18.0	0.003	0.03	91 306 J 2O 1 *
35.0	38x57.5x57.5	52.5	20.3	20.0	5.0	18.0	0.003	0.03	91 356 J 2O 1 *
40.0	38x57.5x57.5	52.5	20.3	21.5	4.8	19.0	0.003	0.03	91 406 J 2O 1 *
45.0	45x57x57.5	52.5	20.3	23.6	4.5	19.5	0.003	0.03	91 456 J 2O 1 *
55.0	45x65x57.5	52.5	20.3	26.5	3.5	20.5	0.003	0.03	91 556 J 2O 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	Irms ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
1200VDC									
1.0	11x21x32	27.5	-	3.6	25.0	15.0	0.001	0.01	91 105 J 2P 1 *
1.5	12.5x21.5x32	27.5	-	4.5	18.0	15.0	0.001	0.01	91 155 J 2P 1 *
2.0	15x24.5x32	27.5	-	6.0	13.4	17.0	0.001	0.01	91 205 J 2P 1 *
3.0	16x30x32	27.5	-	7.5	9.0	20.0	0.001	0.01	91 305 J 2P 1 *
4.0	18x33x32	27.5	-	9.0	7.0	21.0	0.001	0.01	91 405 J 2P 1 *
5.0	22x36x32	27.5	-	11.0	6.0	23.0	0.001	0.01	91 505 J 2P 1 *
8.0	20x40x42	37.5	10.2	11.0	7.6	13.0	0.002	0.02	91 805 J 2P 1 *
10.0	28x37x42	37.5	10.2	12.7	6.3	14.0	0.002	0.02	91 106 J 2P 1 *
10.0	24x44x42	37.5	10.2	12.7	5.9	14.0	0.002	0.02	91 106 J 2P 1 *
12.0	28x42.5x42	37.5	10.2	14.3	5.5	15.0	0.002	0.02	91 126 J 2P 1 *
14.0	30x45x42	37.5	20.3	16.2	4.8	16.0	0.002	0.02	91 146 J 2P 1 *
16.0	33x48x42	37.5	20.3	18.0	4.2	17.0	0.002	0.02	91 166 J 2P 1 *
20.0	30x45x57.5	52.5	20.3	14.1	7.8	14.5	0.003	0.03	91 206 J 2P 1 *
22.0	30x50x57.5	52.5	20.3	15.2	7.0	15.0	0.003	0.03	91 226 J 2P 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
25.0	35x50x57.5	52.5	20.3	17.0	6.3	16.0	0.003	0.03	91 256 J 2P 1 *
27.0	35x50x57.5	52.5	20.3	17.6	5.8	17.0	0.003	0.03	91 276 J 2P 1 *
30.0	38x57.5x57.5	52.5	20.3	19.4	5.4	18.0	0.003	0.03	91 306 J 2P 1 *
33.0	38x57.5x57.5	52.5	20.3	20.8	4.9	18.0	0.003	0.03	91 336 J 2P 1 *
35.0	45X55X57.5	52.5	20.3	22.2	4.5	19.0	0.003	0.03	91 356 J 2P 1 *
40.0	45X57X57.5	52.5	20.3	235	4.4	19.5	0.003	0.03	91 406 J 2P 1 *
47.0	45X65X57.5	52.5	20.3	26.2	3.7	20	0.003	0.03	91 476 J 2P 1 *
1300VDC									
5.0	22x37x32	27.5	-	11.0	6.0	23.0	0.001	0.01	91 505 J 2U 1 A

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Cap value	dimensions w x h x l mm	S mm	S1 mm	Irms ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
1400VDC									
0.6	11x19x32	27.5	-	3.0	33.0	13.0	0.001	0.01	91 604 J 2X 1 *
1.0	12.5x21.5x32	27.5	-	4.5	21.0	15.0	0.001	0.01	91 105 J 2X 1 *
1.5	15x24.5x32	27.5	-	5.5	15.0	15.5	0.001	0.01	91 155 J 2X 1 *
2.0	18x27.5x32	27.5	-	7.1	12.5	16.0	0.001	0.01	91 205 J 2X 1 *
4.0	22x37x32	27.5	-	11.0	10.0	23.0	0.001	0.01	91 405 J 2X 1 *
5.0	20x40x42	37.5	10.2	9.5	10.0	13.0	0.002	0.02	91 505 J 2X 1 *
7.0	28x37x42	37.5	10.2	12.5	8.0	14.0	0.002	0.02	91 705 J 2X 1 *
8.0	28x42.5x42	37.5	10.2	13.5	7.0	15.0	0.002	0.02	91 805 J 2X 1 *
10.0	30x45x42	37.5	20.3	15.0	6.5	16.0	0.002	0.02	91 106 J 2X 1 *
12.0	33x48x42	37.5	20.3	17.5	5.5	17.0	0.002	0.02	91 126 J 2X 1 *
15.0	30x45x57.5	52.5	20.3	13.5	9.0	14.5	0.003	0.03	91 156 J 2X 1 *
20.0	35x50x57.5	52.5	20.3	16.5	8.0	16.0	0.003	0.03	91 206 J 2X 1 *
25.0	38x57.5x57.5	52.5	20.3	19.1	6.1	17.0	0.003	0.03	91 256 J 2X 1 *
30.0	45x55x57.5	52.5	20.3	21.6	5.5	18.0	0.003	0.03	91 306 J 2X 1 *
35.0	45x65x57.5	52.5	20.3	24.3	4.6	20.0	0.003	0.03	91 356 J 2X 1 *

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Cap value	dimensions w x h x l mm	S mm	S1 mm	I _{rms} ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
1500VDC									
0.5	11x19x32	27.5	-	3.0	37.0	13.5	0.001	0.01	91 504 J 3R 1 *
0.7	12.5x21.5x32	27.5	-	4.5	28.0	14.0	0.001	0.01	91 704 J 3R 1 *
1.0	15x24.5x32	27.5	-	5.0	20.0	17.0	0.001	0.01	91 105 J 3R 1 *
1.5	18x27.5x32	27.5	-	6.5	18.0	19.0	0.001	0.01	91 155 J 3R 1 *
2.0	21x31x32	27.5	-	8.1	12.0	21.0	0.001	0.01	91 205 J 3R 1 *
3.0	22x36.5x32	27.5	-	10.5	10.0	23.0	0.001	0.01	91 305 J 3R 1 *
4.0	20x40x42	37.5	10.2	9.0	12.5	13.5	0.002	0.02	91 405 J 3R 1 *
5.0	28x37x42	37.5	10.2	11.0	10.0	14.0	0.002	0.02	91 505 J 3R 1 *
6.0	28x42.5x42	37.5	10.2	12.5	8.0	15.0	0.002	0.02	91 605 J 3R 1 *
7.0	30x45x42	37.5	20.3	14.5	7.0	16.0	0.002	0.02	91 705 J 3R 1 *
8.0	43x25x42	37.5	20.3	14.0	7.0	9.0	0.002	0.02	91 805 J 3R 1 G
9.0	33x48x42	37.5	20.3	16.0	6.5	17.0	0.002	0.02	91 905 J 3R 1 *
10.0	30x45x57.5	52.5	20.3	12.0	12.0	14.5	0.003	0.03	91 106 J 3R 1 *
15.0	35x50x57.5	52.5	20.3	15.5	10.0	17.0	0.003	0.03	91 156 J 3R 1 *
18.0	38x57.5x57.5	52.5	20.3	18.0	8.0	18.0	0.003	0.03	91 186 J 3R 1 *
20.0	45x57x57.5	52.5	20.3	20.0	6.0	19.0	0.003	0.03	91 206 J 3R 1 *
25.0	45X65X57.5	52.5	20.3	22.9	4.5	20.5	0.003	0.03	91 256 J 3R 1 *

only better

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91 - Metallized Polypropylene DC Link Film Capacitors



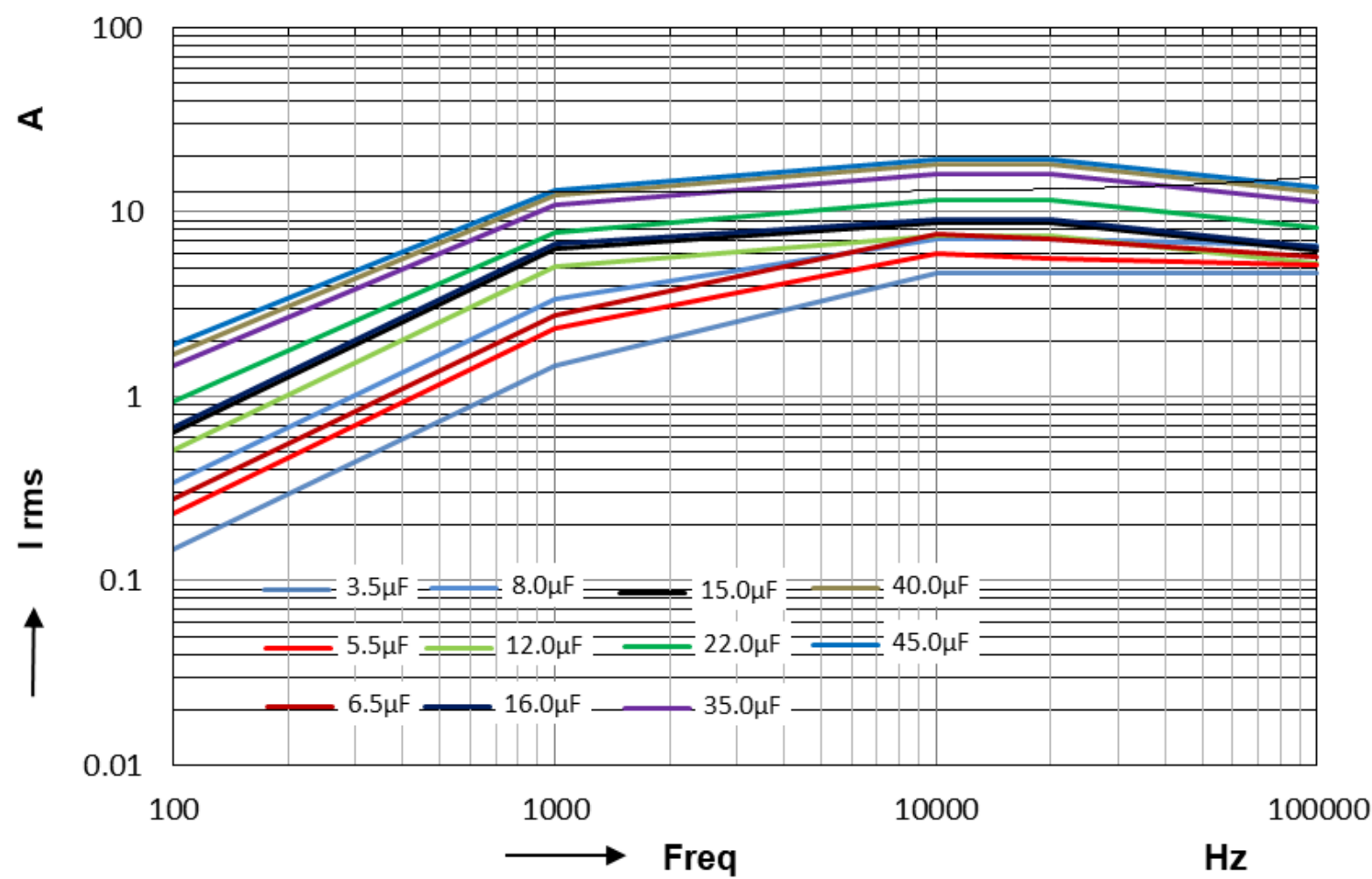
Cap value	dimensions w x h x l mm	S mm	S1 mm	Irms ¹ ,max A @ 10KHz	ESR ² 85°C 10kHz mΩ	ESL ³ nH	tan δ ⁴ max 1 kHz	tan δ ⁴ max 10 kHz	Part code
1600VDC									
0.5	11x21x32	27.5	-	3.5	33.0	13.0	0.001	0.01	91 504 J 3C 1 *
0.6	12.5x21.5x32	27.5	-	3.8	30.0	14.0	0.001	0.01	91 604 J 3C 1 *
0.7	14x24.5x32	27.5	-	4.5	27.0	17.0	0.001	0.01	91 704 J 3C 1 *
0.8	15x24.5x32	27.5	-	5.0	23.0	18.0	0.001	0.01	91 804 J 3C 1 *
1.0	18x27.5x32	27.5	-	6.0	20.0	18.0	0.001	0.01	91 105 J 3C 1 *
1.5	18x33x32	27.5	-	7.1	16.0	21.0	0.001	0.01	91 155 J 3C 1 *
2.0	22x36.5x32	27.5	-	9.0	12.0	23.0	0.001	0.01	91 205 J 3C 1 *
3.3	20x40x42	37.5	10.2	9.5	14.0	13.0	0.002	0.02	91 335 J 3C 1 *
4.0	20x40x42	37.5	10.2	10.6	10.0	14.0	0.002	0.02	91 405 J 3C 1 *
5.0	24x44x42	37.5	10.2	12.5	8.2	15.0	0.002	0.02	91 505 J 3C 1 *
6.0	28x42.5x42	37.5	10.2	14.0	7.6	16.0	0.002	0.02	91 605 J 3C 1 *
7.0	33x48x42	37.5	20.3	16.0	7.0	17.0	0.002	0.02	91 705 J 3C 1 *
8.0	30x45x57.5	52.5	20.3	11.5	15.0	14.5	0.003	0.03	91 805 J 3C 1 *
12.0	35x50x57.5	52.5	20.3	14.5	11.0	16.5	0.003	0.03	91 126 J 3C 1 *
15.0	38x57.5x57.5	52.5	20.3	17.1	8.0	18.0	0.003	0.03	91 156 J 3C 1 *
18.0	45x57x57.5	52.5	20.3	20.0	7.0	21.0	0.003	0.03	91 186 J 3C 1 *

*Internal design code
Other tolerance available
Intermediate values available
Lead length (l) = Min. 6 mm
1. Max. RMS Current at 10KHz Hot sot temperature 85°C
2. Typical values
3. ESL at resonance condition
4. Tan δ max. value

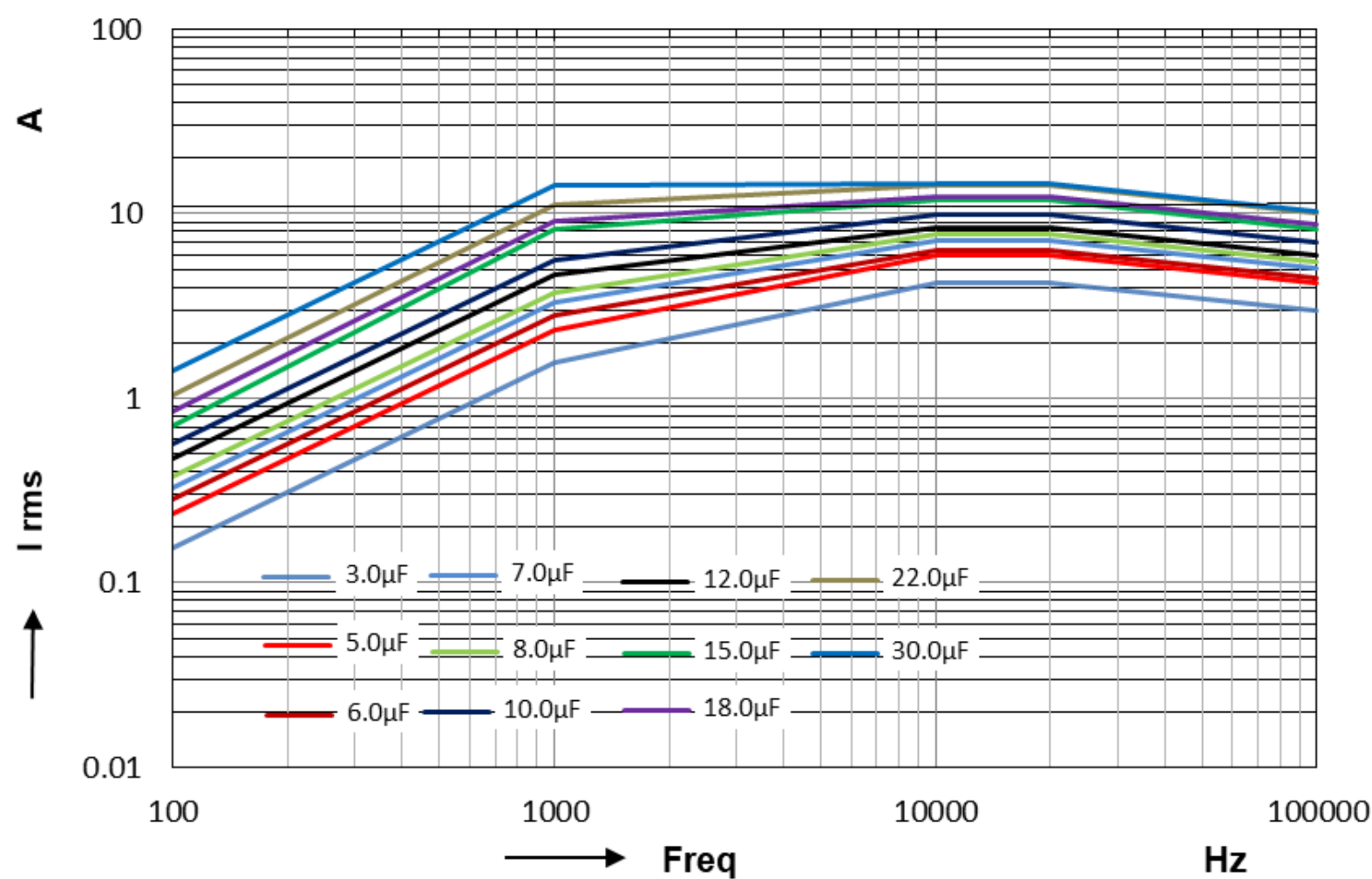
only better

Current (Irms) vs frequency at 85°C temp.

450Vdc

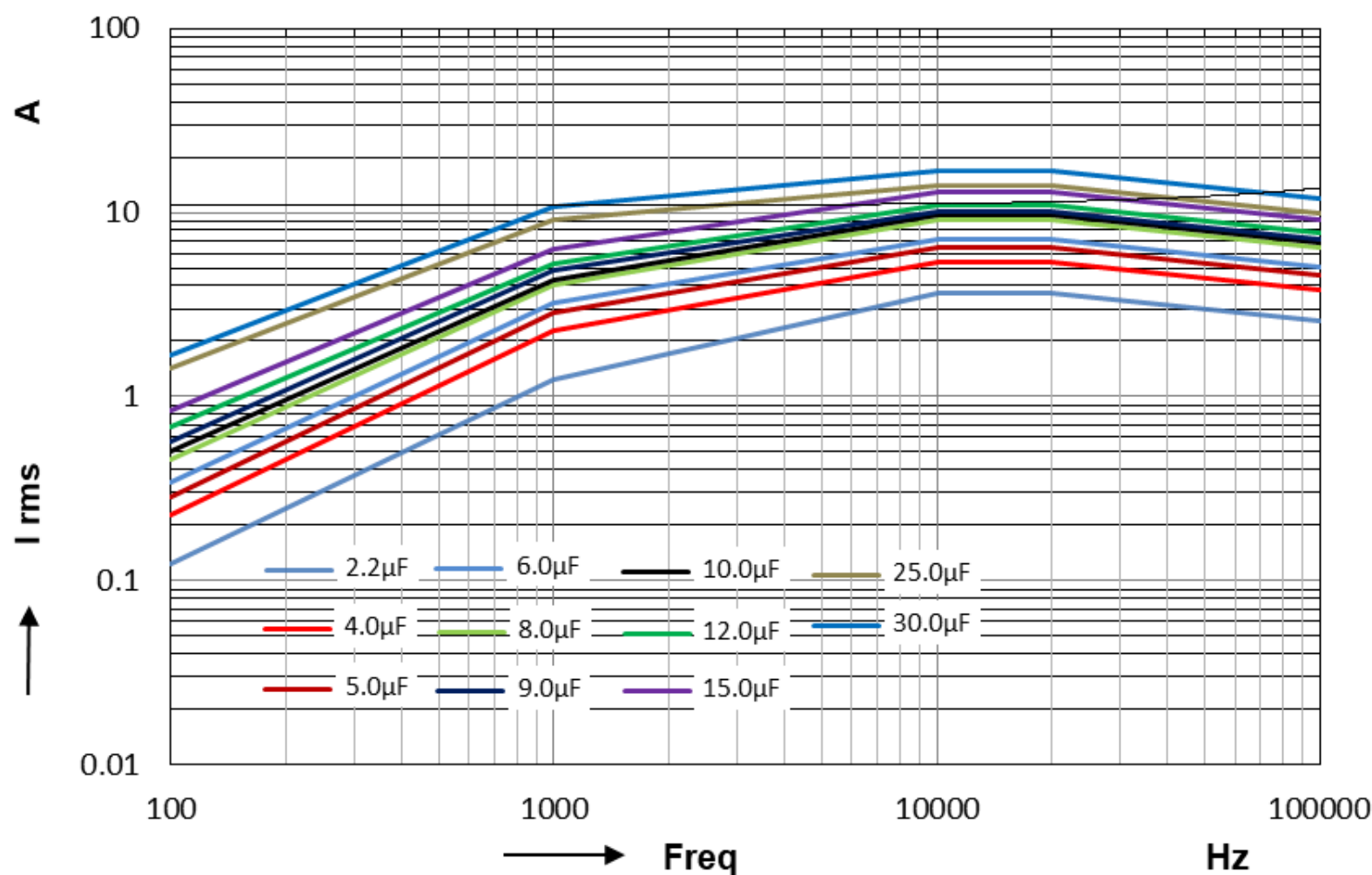


500Vdc

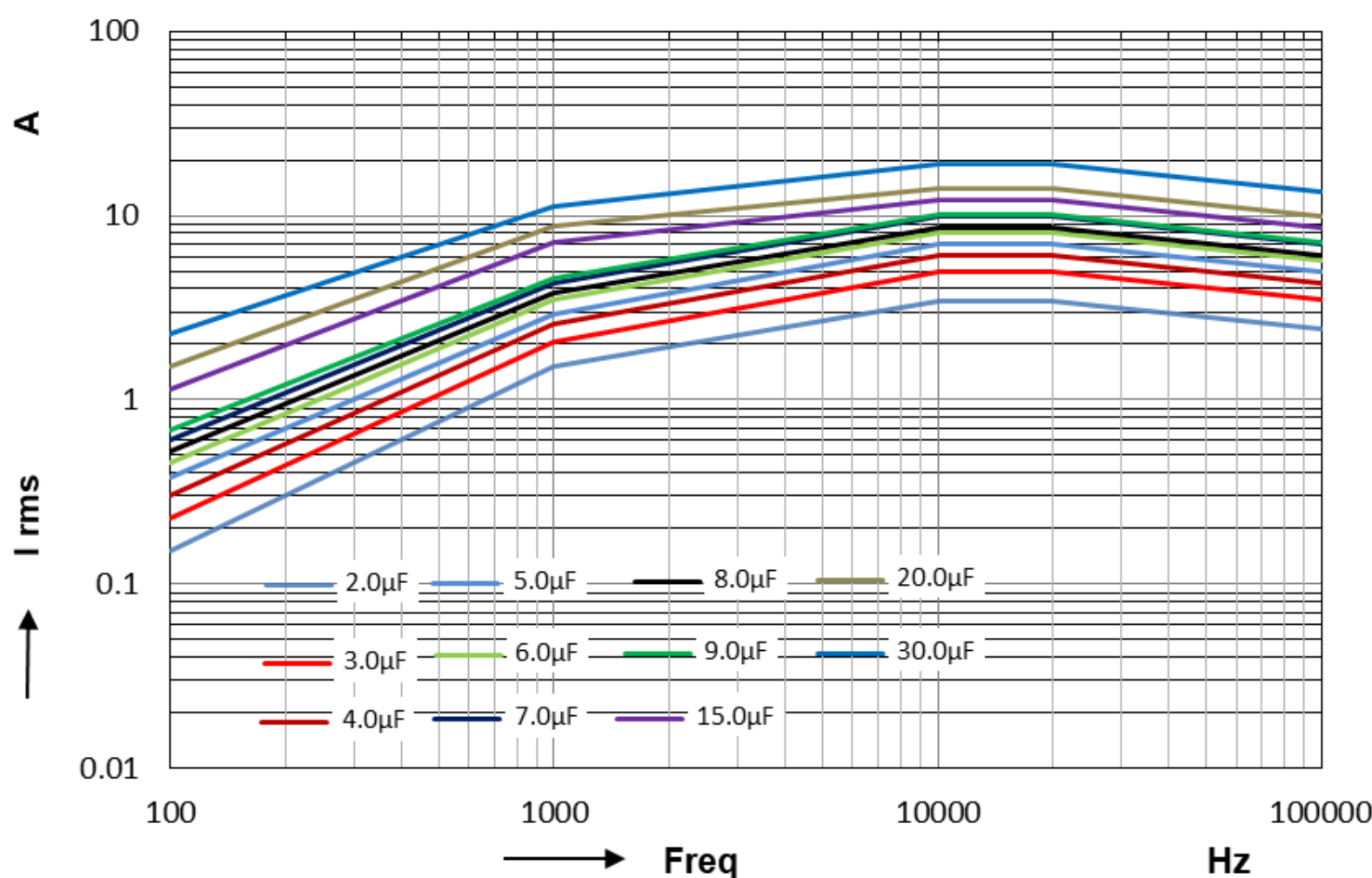


Current (Irms) vs frequency at 85°C temp.

600Vdc

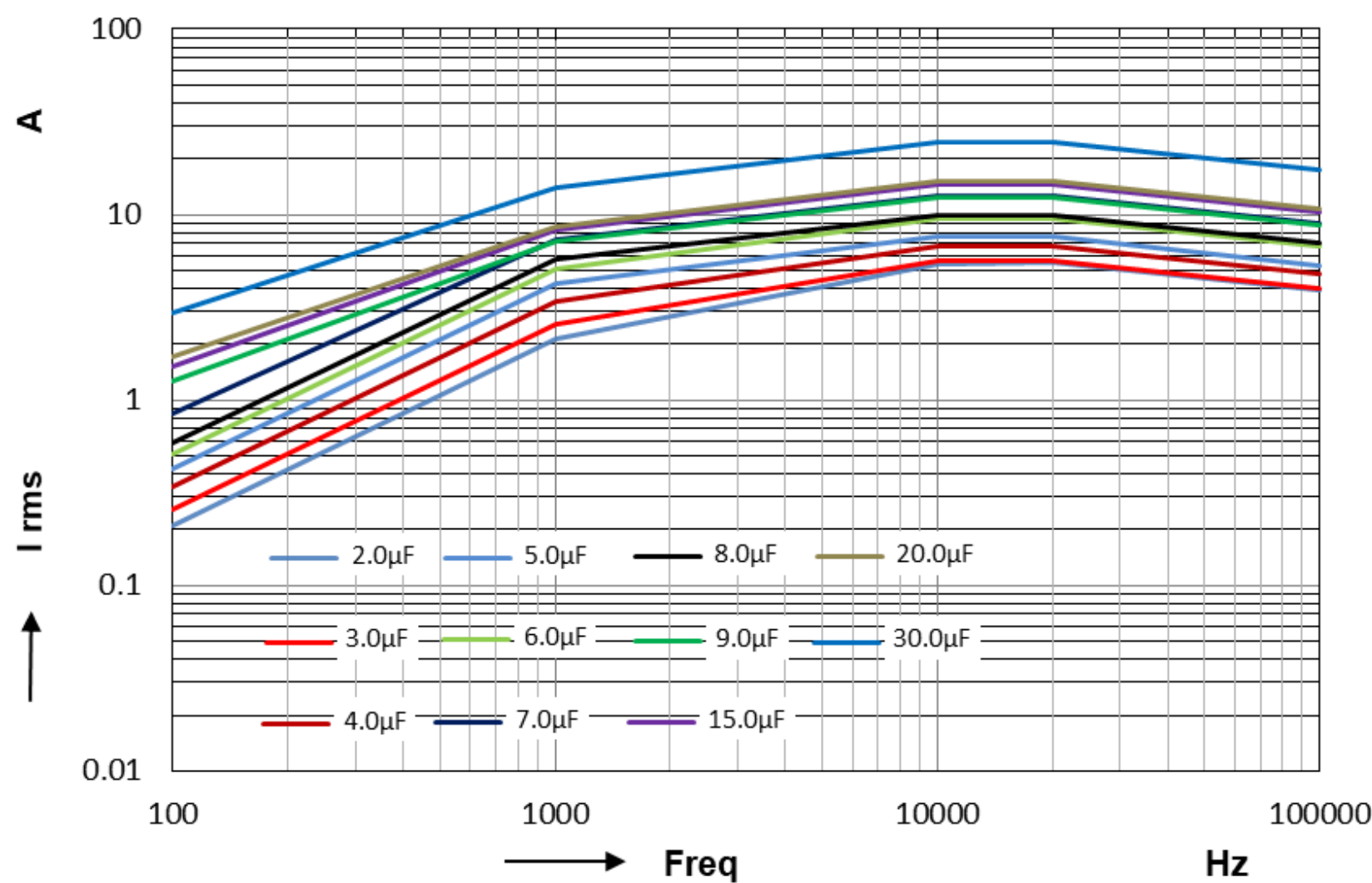


800Vdc

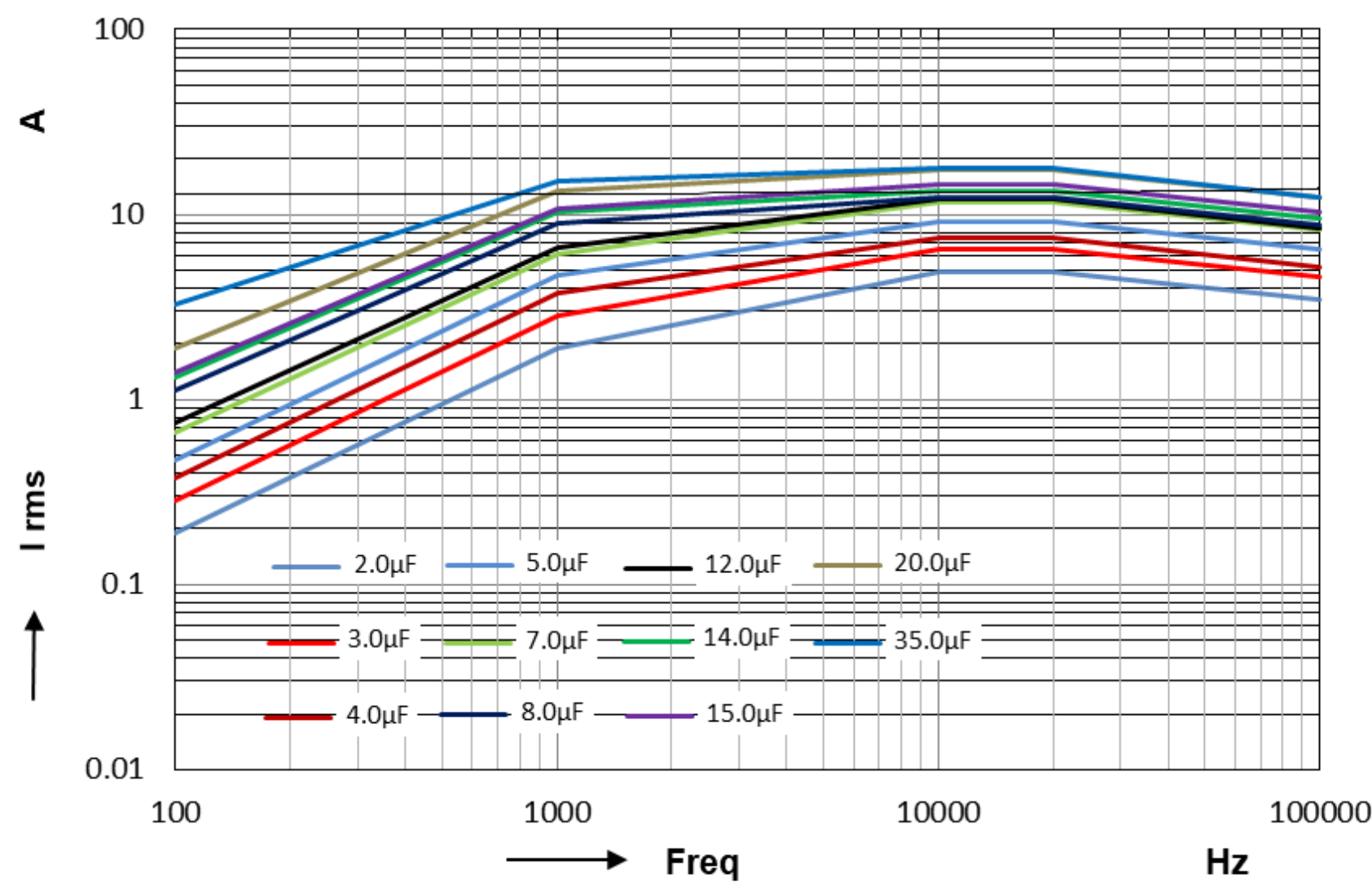


Current (Irms) vs frequency at 85°C temp.

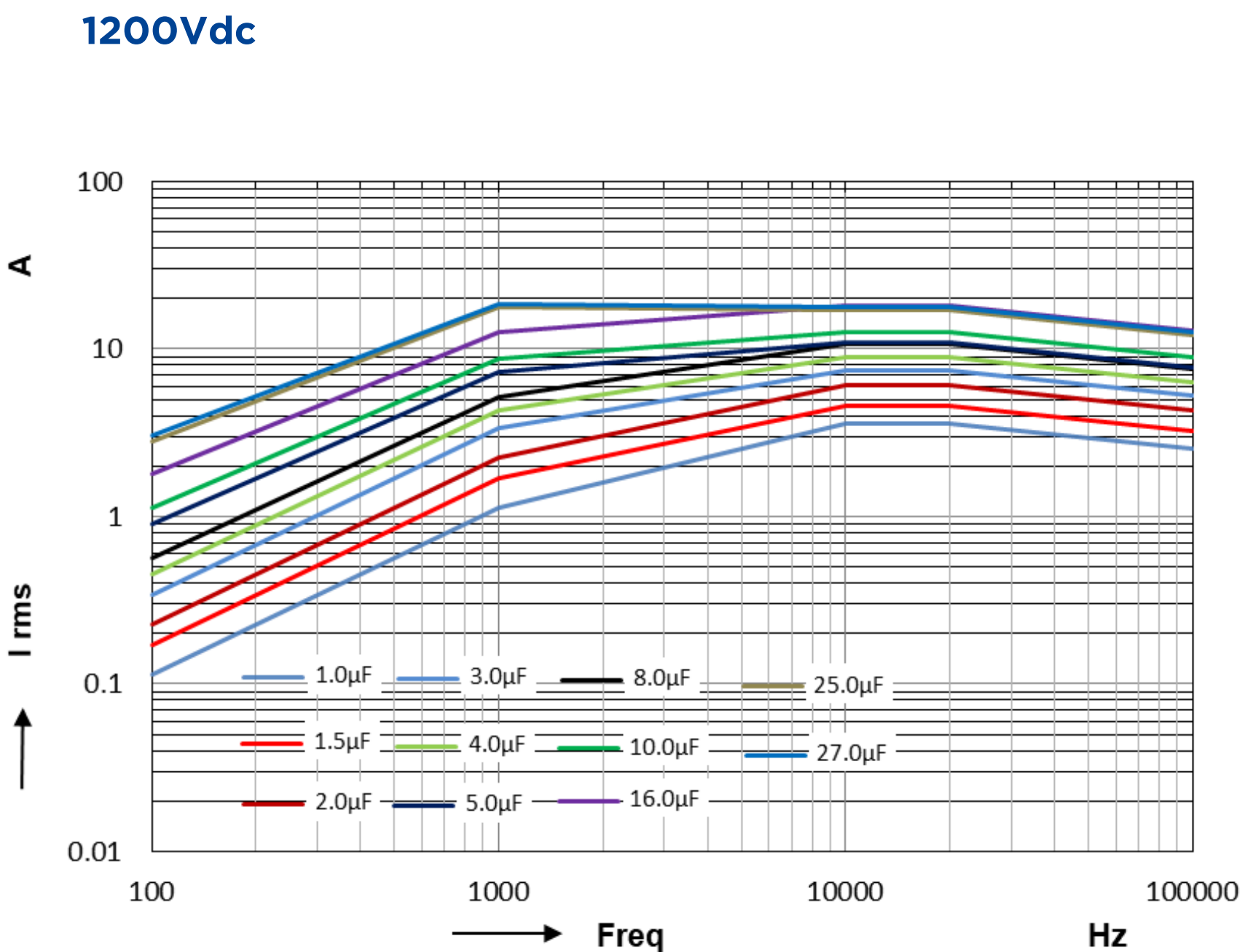
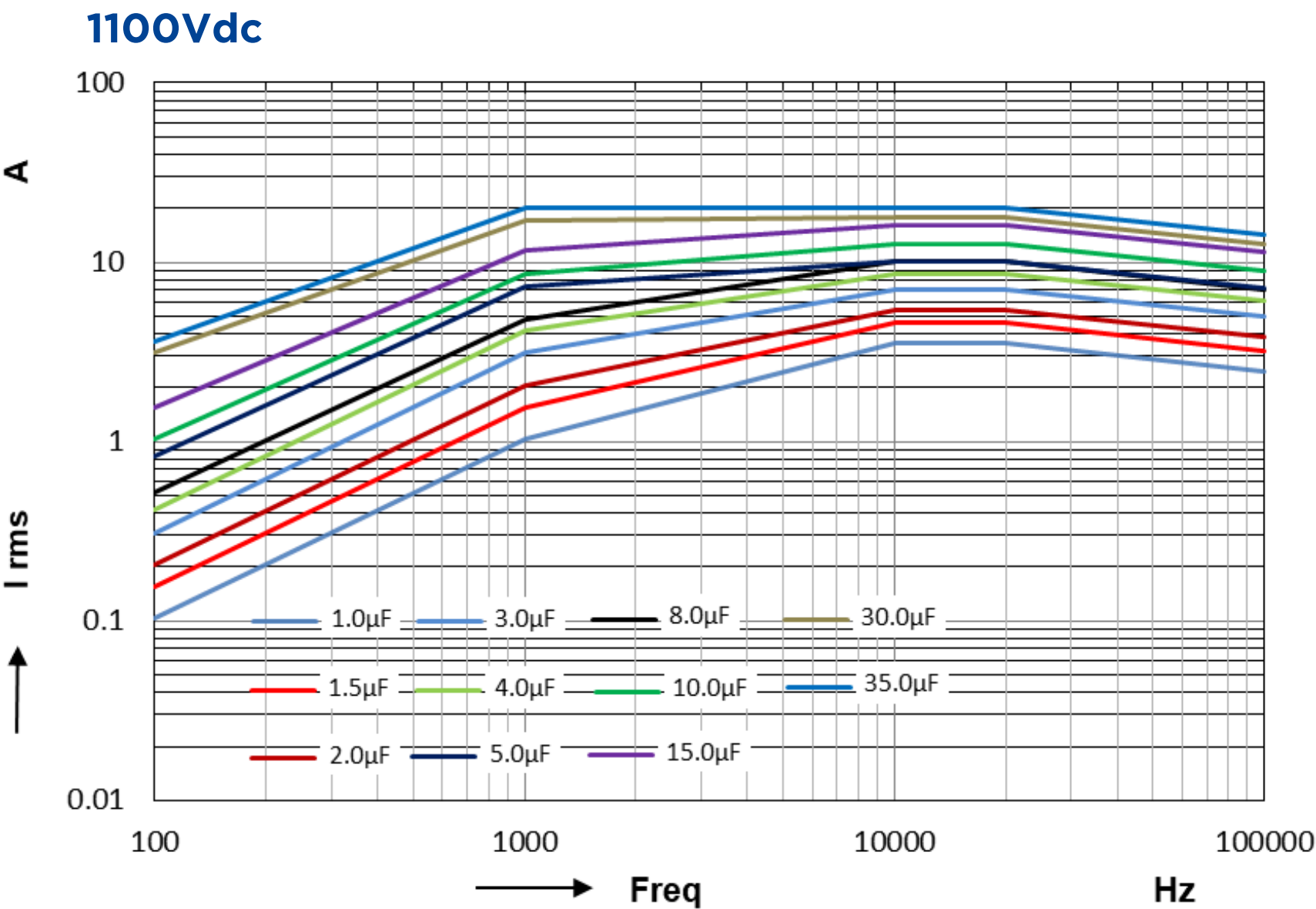
900Vdc



1000Vdc

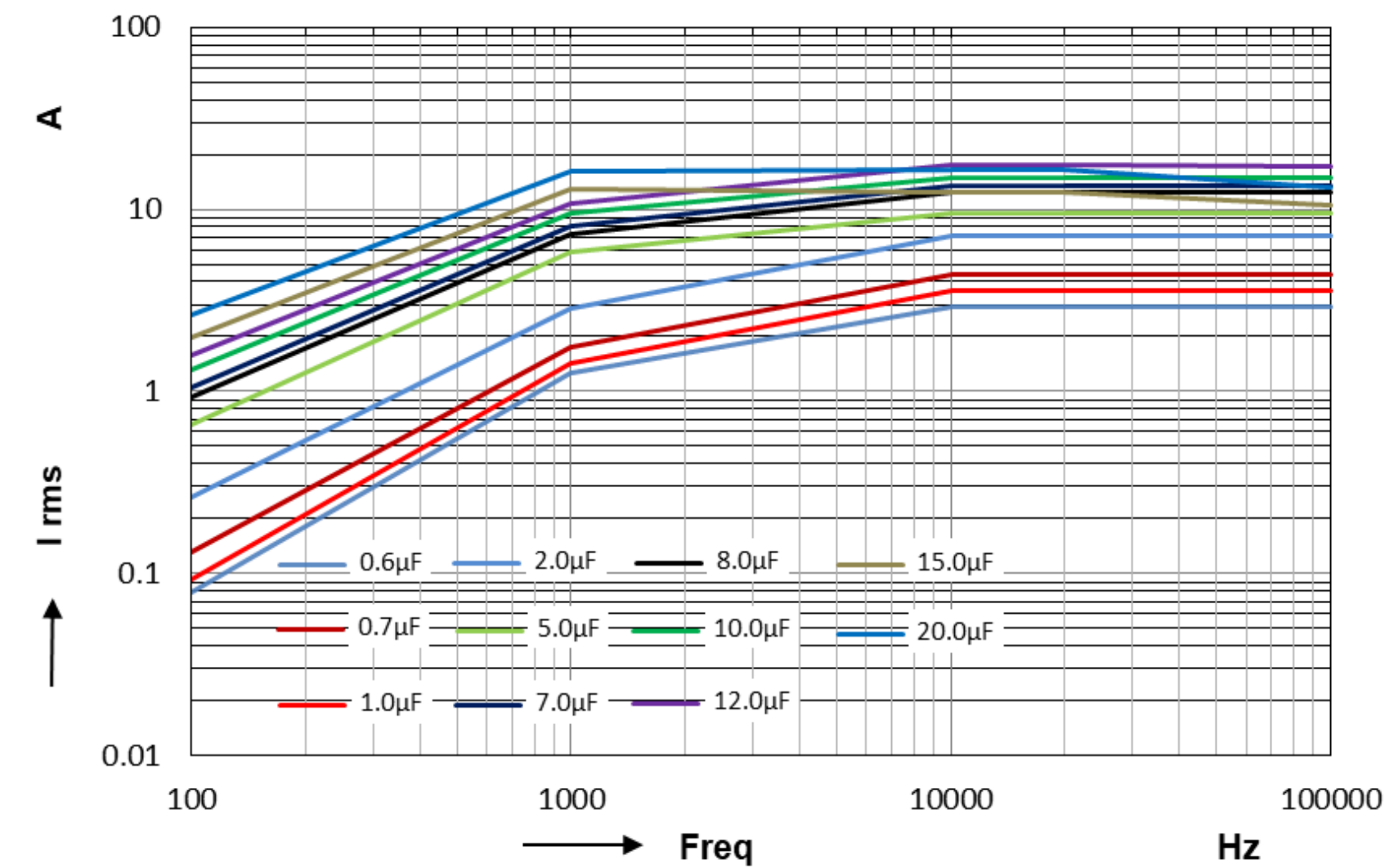


Current (Irms) vs frequency at 85°C temp.

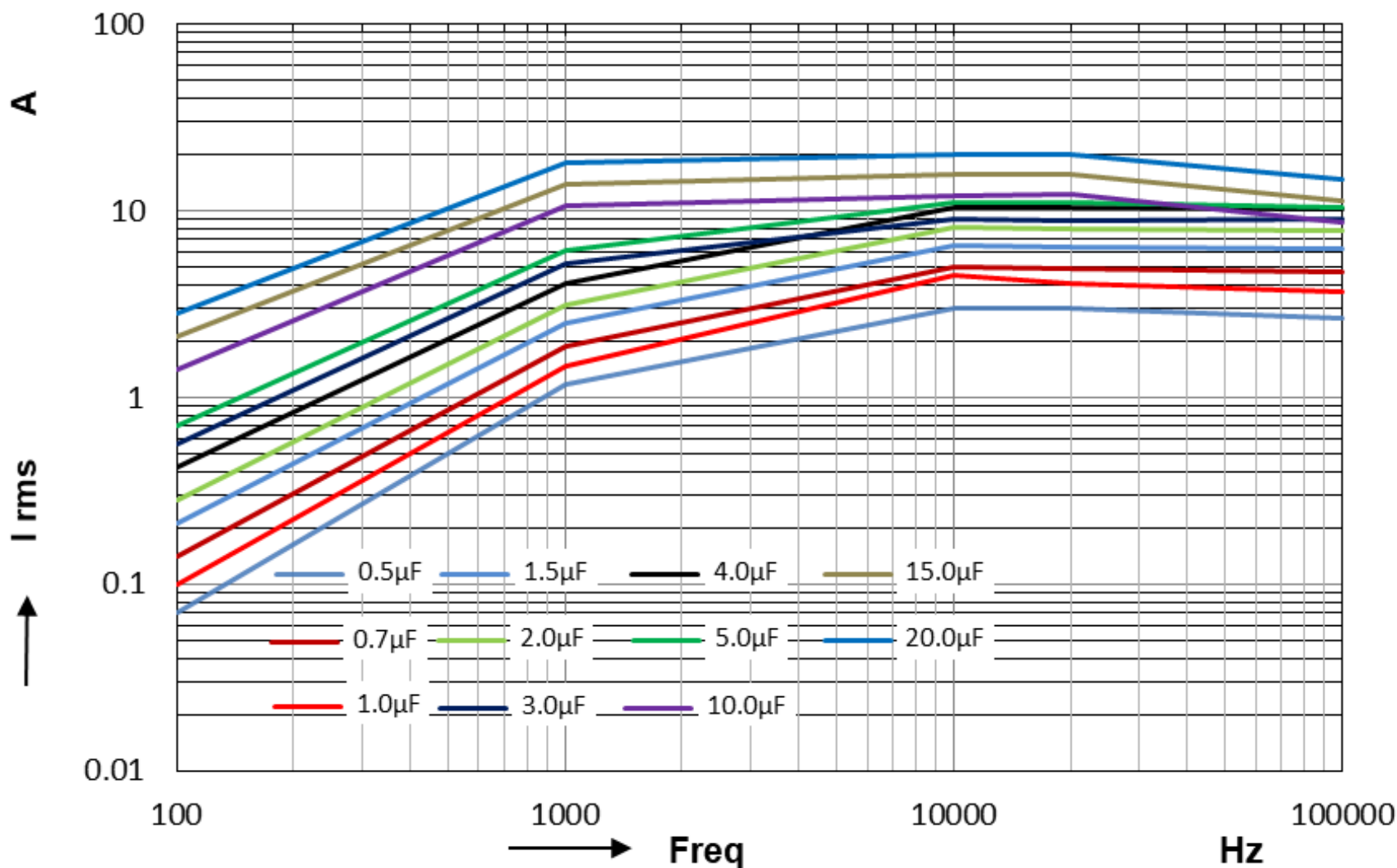


Current (Irms) vs frequency at 85°C temp.

1400Vdc

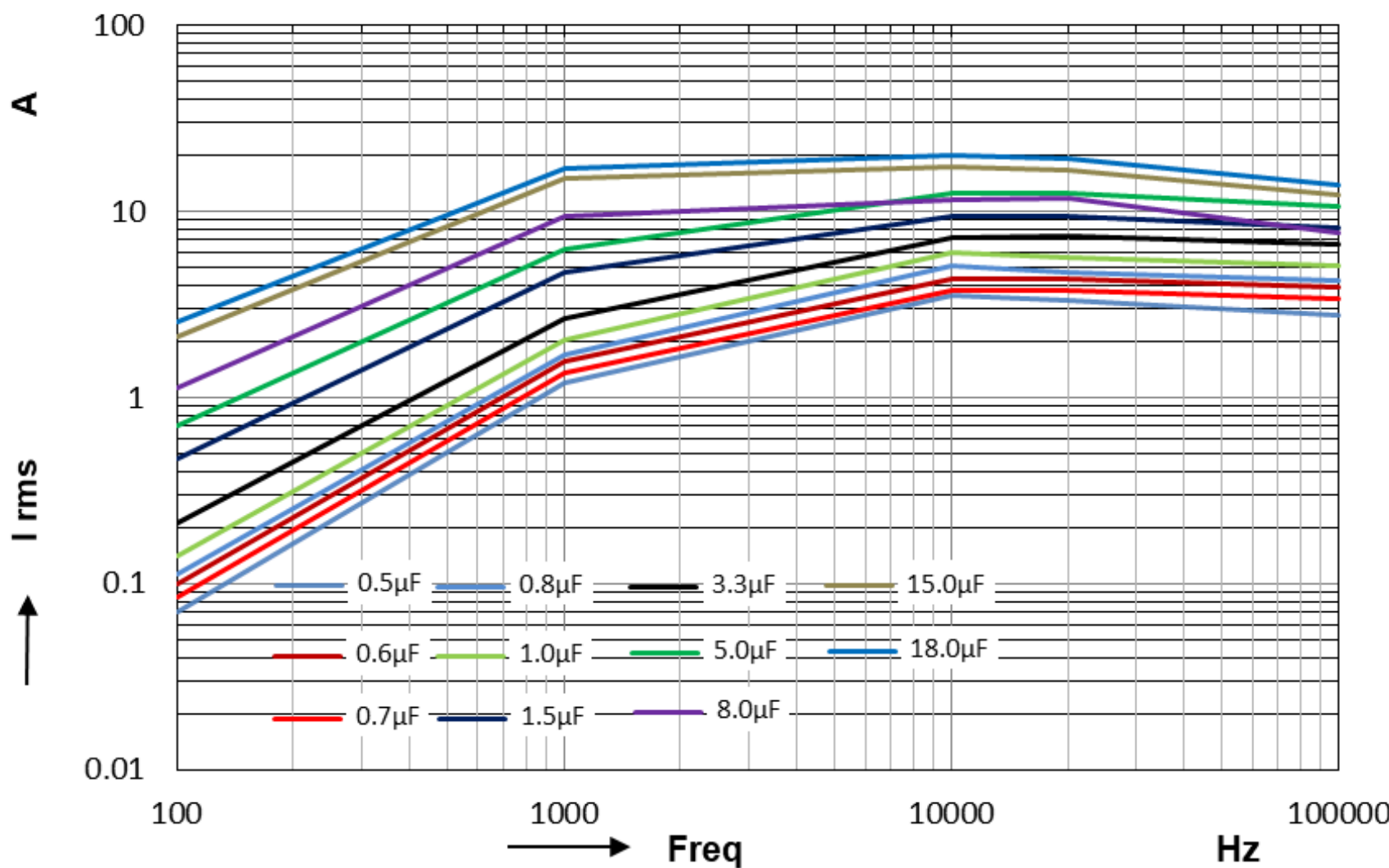


1500Vdc

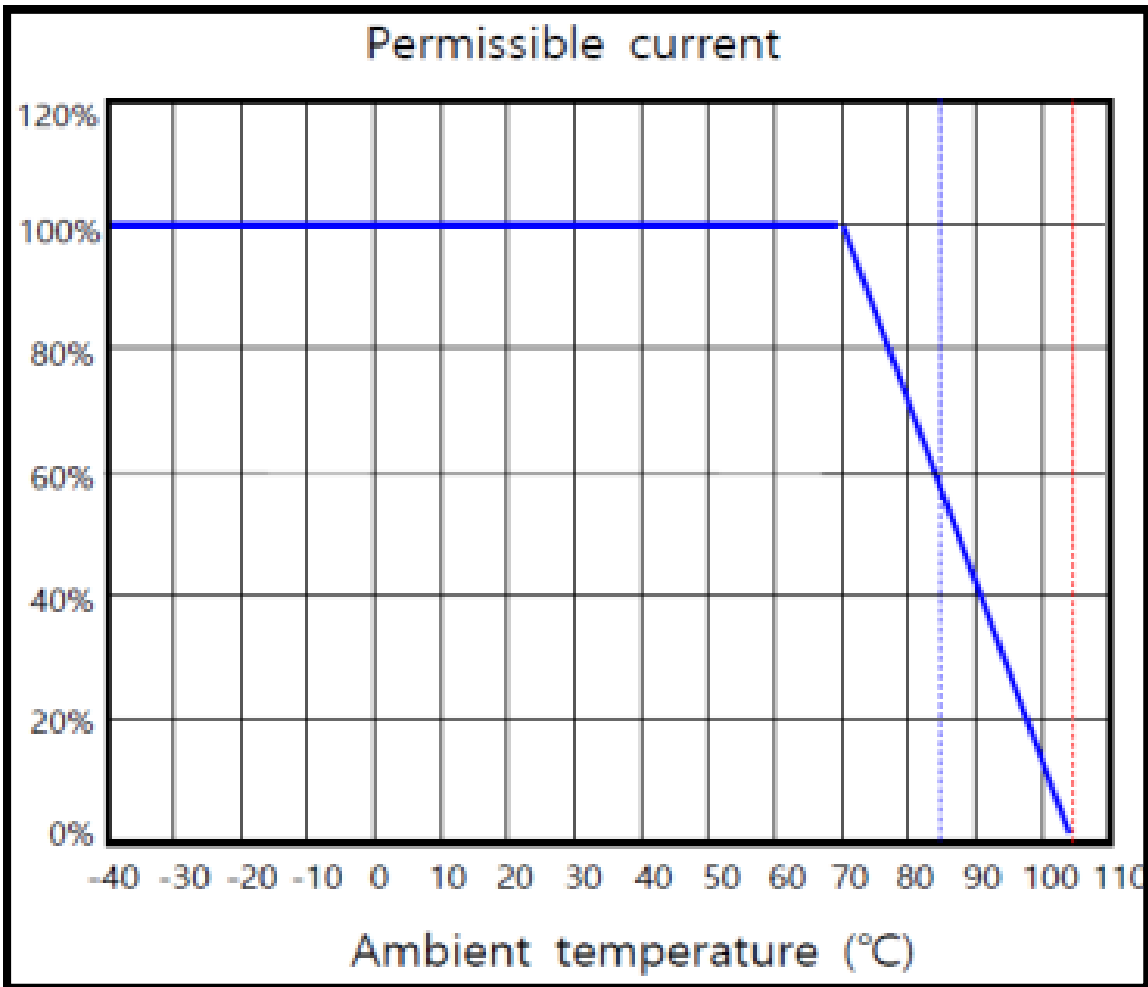


Current (Irms) vs frequency at 85°C temp.

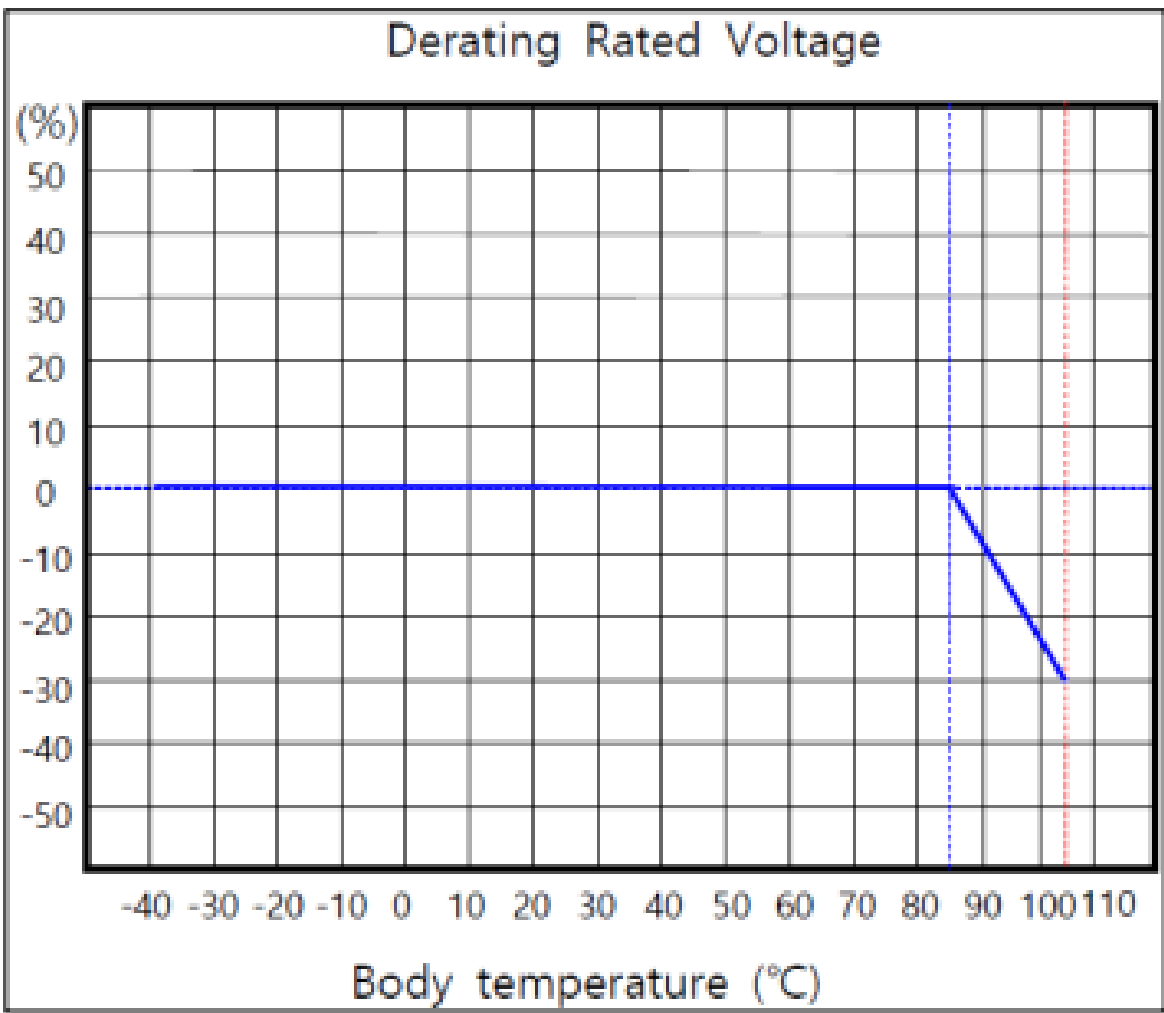
1600Vdc



Current (Irms) vs Temperature



Derating Voltage Vs Temperature



Disclaimer

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