



## XDP series / DC-Link applications

### GENERAL TECHNICAL CHARACTERISTICS

Reference standards : IEC 61071 60068-1  
 Dielectric : Polypropylene film  
 Construction : Extended metallized film, Dry construction  
 Coating : Aluminum case  
 Leads : Threaded insert M6, bolt available

### ELECTRICAL CHARACTERISTICS

Operating temperature range : - 40 to + 85 °C (case)  
 Capacitance : 75 to 2750 $\mu$ F  
 Rated Voltage : 900 to 2500VDC  
 Tolerance :  $\pm$  5% ,  $\pm$  10%  
 Dissipation factor:  $\leq 3 \times 10^{-3}$  Measured at 100 Hz and 25 $\pm$ 5°C  
 Life expectancy : 100,000 hours at Un and 70 °C (Hot-spot temperature)

### TEST METHODS AND PERFORMANCES

Dielectric strength: 1.5Un (DC) applied for 10s at 25 $\pm$ 5°C  
 Test voltage terminal to case : (1.5 $\times$ Un+1000)Vac, Min 3000Vac, for 60 sec  
 Insulation resistance :  $\geq 10000$  s, after 1 minute of electrification at 100Vdc (25 $\pm$ 5°C )

D= 76, 86mm	D=116mm	D= 136mm
d= 14mm	d=14mm	d=16mm
P= 32mm	P= 50mm	P= 50mm

### Electrical specifications, ordering codes

Cap ( $\mu$ F)	D (mm)	H (mm)	Ipeak (KA)	Irms@25°C @10kHz (A)	ESR@1.0 kHz(m $\Omega$ )	Ls (nH)	Rth (k/W)	Wn (Ws)	Weight (Kg)	Ordering Code
<b>Un 900VDC ,Us 1350V ,Ur 200V</b>										
370	76	125	3.3	60	1.2	40	3.7	150	0.75	XDP-900-370-FS
390	76	120	1.6	33	3.7	60	3.9	158	0.70	XDP-900-390-FS
450	76	145	3.2	61	1.3	45	3.2	182	0.85	XDP-900-450-FS
490	86	125	4.4	71	0.9	40	3.3	198	0.95	XDP-900-490-FS
520	86	120	2.1	40	2.9	60	3.5	211	0.90	XDP-900-520-FS
570	76	175	3.4	61	1.6	50	2.7	231	1.1	XDP-900-570-FS
600	86	145	4.2	72	1.1	45	2.9	243	1.1	XDP-900-600-FS
750	86	175	4.5	73	1.3	50	2.4	304	1.3	XDP-900-750-FS
780	76	225	3.1	63	2.0	60	2.0	316	1.3	XDP-900-780-FS
1000	116	125	4.0	53	1.6	60	2.9	405	1.7	XDP-900-1000-F
1050	86	225	4.2	76	1.5	60	1.8	425	1.6	XDP-900-1050-F
1100	116	150	7.7	88	0.7	45	2.5	446	2.1	XDP-900-1100-F
1450	116	180	8.7	90	0.7	50	2.1	587	2.4	XDP-900-1450-F
2000	116	230	8.0	92	0.9	60	1.7	810	3.0	XDP-900-2000-F
2750	136	230	11.0	99	0.7	60	1.5	1114	4.1	XDP-900-2750-F
<b>Un 1100VDC ,Us 1650V ,Ur 250V</b>										
250	76	120	1.5	30	4.6	60	3.9	151	0.70	XDP-1100-250-F
330	86	120	2.0	36	3.6	60	3.5	200	0.90	XDP-1100-330-F
370	86	130	1.9	36	3.8	60	3.2	224	0.95	XDP-1100-370-F
400	86	145	4.0	67	1.2	45	2.9	242	1.1	XDP-1100-400-F
420	86	155	4.2	69	1.2	45	2.7	254	1.2	XDP-1100-420-F
500	86	175	4.0	67	1.5	50	2.4	303	1.3	XDP-1100-500-F
650	116	125	3.9	49	1.9	60	2.9	393	1.7	XDP-1100-650-F
680	86	225	4.1	69	1.8	60	1.8	411	1.6	XDP-1100-680-F
730	116	150	7.3	82	0.8	45	2.5	442	2.1	XDP-1100-730-F

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### Electrical specifications, ordering codes

Cap ( $\mu$ F)	D (mm)	H (mm)	Ipeak (KA)	Irms@25°C @10kHz(A)	ESR@1.0 kHz(m $\Omega$ )	Ls (nH)	Rth (k/W)	Wn (Ws)	Weight (Kg)	Ordering Code
<b>Un 1100VDC ,Us 1650V ,Ur 250V</b>										
900	136	125	5.4	54	1.4	60	2.5	545	2.3	XDP-1100-900-F
920	116	180	7.4	82	0.9	50	2.1	557	2.4	XDP-1100-920-F
1250	116	230	7.5	84	1.1	60	(1.7	756	3.0	XDP-1100-1250-
1700	136	230	10.2	90	0.9	60	1.5	1029	4.2	XDP-1100-1700-
1900	136	260	15.2	120	0.5	50	1.3	1150	4.7	XDP-1100-1900-
2550	136	335	15.3	120	0.6	60	1.0	1543	6.0	XDP-1100-2550-
<b>Un 1300VDC ,Us 1950V ,Ur 300V</b>										
170	76	120	1.4	27	5.6	60	3.9	144	0.70	XDP-1300-170-F
230	86	120	1.8	33	4.2	60	3.5	194	0.90	XDP-1300-230-F
330	86	175	3.3	61	1.8	50	2.4	279	1.3	XDP-1300-330-F
450	116	125	3.6	45	2.3	60	2.9	380	1.7	XDP-1300-450-F
470	86	225	3.8	64	2.2	60	1.8	397	1.6	XDP-1300-470-F
500	116	150	6.5	76	0.9	45	2.5	423	2.1	XDP-1300-500-F
630	136	125	5.0	50	1.7	60	2.5	532	2.3	XDP-1300-630-F
640	116	180	6.4	77	1.0	50	2.1	541	2.4	XDP-1300-640-F
850	116	230	6.8	77	1.3	60	1.7	718	3.0	XDP-1300-850-F
900	136	180	9.0	84	0.8	50	1.9	761	3.3	XDP-1300-900-F
1200	136	230	9.6	84	1.0	60	1.5	1014	4.1	XDP-1300-1200-
1350	136	260	13.5	114	0.6	50	1.3	1141	4.6	XDP-1300-1350-
1800	136	335	14.4	119	0.7	60	1.0	1521	6.0	XDP-1300-1800-
<b>Un 1900VDC ,Us 2850V ,Ur 400V</b>										
75	76	120	1.1	22	8.4	60	3.9	135	0.70	XDP-1900-75-FS
100	86	120	1.4	27	6.3	60	3.5	181	0.90	XDP-1900-100-F
150	86	175	2.9	51	2.6	50	2.4	271	1.3	XDP-1900-150-F
190	116	125	2.7	36	3.4	60	2.9	343	1.7	XDP-1900-190-F
200	86	225	2.8	52	3.3	60	1.8	361	1.7	XDP-1900-200-F
220	116	150	5.5	65	1.2	45	2.5	397	2.1	XDP-1900-220-F
275	136	125	3.9	41	2.4	60	2.5	496	2.3	XDP-1900-275-F
280	116	180	5.3	64	1.5	50	2.1	505	2.4	XDP-1900-280-F
380	116	230	5.3	65	1.8	60	1.7	686	3.0	XDP-1900-380-F
400	136	180	7.6	71	1.1	50	1.9	722	3.3	XDP-1900-400-F
540	136	230	7.6	72	1.3	60	1.5	975	4.1	XDP-1900-540-F
600	136	260	11.4	99	0.8	50	1.3	1083	4.6	XDP-1900-600-F
800	136	335	11.2	102	1.0	60	1.0	1444	6.0	XDP-1900-800-F
<b>Un 2500VDC ,Us 3750V ,Ur 600V</b>										
95	116	130	1.5	43	2.5	40	2.8	297	1.8	XDP-2500-95-FS
130	136	130	2.1	47	1.9	40	2.4	406	2.5	XDP-2500-130-F
200	116	230	1.6	42	4.4	60	1.7	625	3.0	XDP-2500-200-F
280	136	230	2.2	46	3.2	60	1.5	875	4.1	XDP-2500-280-F

<b>XDP</b>	-	<b>1300</b>	-	<b>470</b>	-	<b>F S</b>
Series		Voltage		Capacitance		Dimension and terminal

<b>F</b>	<b>M</b>	Terminals code, F for insert thread M for Lead screw
<b>S</b>		Bold code, stud mounting

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