

HP3 Series Useful of 4,000 hours at 85°C

- Conform RoHS

Features

- The HP3 series is the standard products of 85°C.

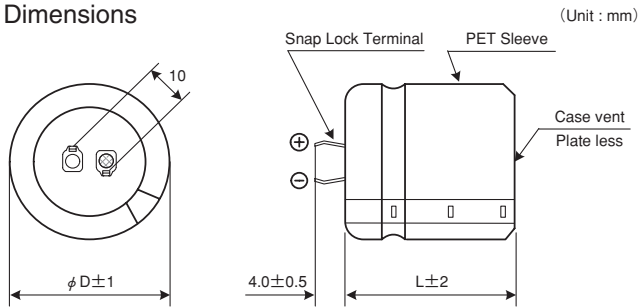


ALUMINUM ELECTROLYTIC CAPACITORS

Product Specifications

Items	Specifications
Temperature range	- 40°C ~ + 85°C
Rated voltage	16 ~ 450V.DC
Capacitance tolerance	± 20% (20°C, 120Hz)
Leakage current	0.02CV (µA) or 3 mA, whichever is smaller or less (20°C, after 5 minutes) [C = nominal capacitance (µF), V = rated voltage (V)]
Dissipation factor	Less than the value specified in the standard products table. (20°C, 120Hz)
Permissible ripple current	As specified in the standard products table. (85°C, 120Hz)
Endurance	After the rated voltage with specified ripple current is applied at 85°C for 2000 hours: 16 ~ 350V.DC / Capacitance change : Within ±15% of the initial value measured Dissipation factor : 175% or less than the initial value specified Leakage current : Less than or equal to the initial value specified 400 ~ 450V.DC/ Capacitance change : Within ±20% of the initial value measured Dissipation factor : 200% or less than the initial value specified Leakage current : Less than or equal to the initial value specified
Shelf life	The following specification shall be meet when the capacitor are restored to 20°C after storage of 500 hours at 85°C with no voltage applied. Before the measurement, the capacitor shall be preconditioned by applying the voltage treatment according to Item 4.1 of JIS C 5101-4. Capacitance change : Within ±15% of the initial value measured Dissipation factor : 175% or less than the initial value specified Leakage current : Less than or equal to the initial value specified
Others	JIS C 5101-4

Dimensions

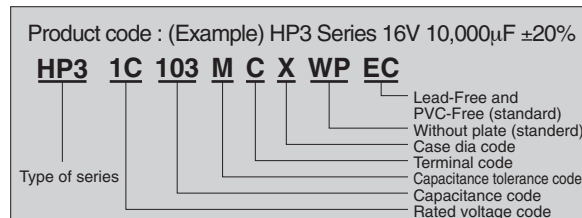


Ripple current correction coefficient

Temperature (°C)	60	70	85		
Correction coefficient	1.4	1.2	1.0		
Frequency (Hz)	50/60	120	300	1K	≥ 10K
Correction coefficient	16-100V : 0.7	1.0	1.1	1.2	1.2
	160-450V : 0.7	1.0	1.1	1.3	1.4

A continuous load should be avoided over 10 Arms at the terminal in accordance with the permissible current.
Please consult us when the ripple voltage exceeds 70Vp-p .

Product code



Refer to page 73-74 for other terminal shape available on request.

SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

Standard Products Table

Rated Voltage (V. DC)	Capacitance (μF)	Case size øDXL(mm)	tanδ 20°C,120Hz	Ripple current (Arms)		Product name	
				85°C,120Hz	ESR(typ.) 20°C,100Hz (mΩ)		
16	6,800	22×25	0.50	1.78	51	HP31C682MCXWPEC	
		22×30	0.50	1.94	41	HP31C103MCXWPEC	
	10,000	25×25	0.50	1.92	41	HP31C103MCYWPEC	
		22×40	0.50	2.65	28	HP31C153MCXWPEC	
		25×30	0.50	2.52	28	HP31C153MCYWPEC	
	15,000	30×25	0.50	2.52	28	HP31C153MCZWPEC	
		25×45	0.50	3.52	22	HP31C223MCYWPEC	
		30×30	0.50	3.23	22	HP31C223MCZWPEC	
	22,000	35×25	0.50	3.23	22	HP31C223MCAWPEC	
		30×45	0.50	4.28	17	HP31C333MCZWPEC	
		35×35	0.50	4.12	17	HP31C333MCAWPEC	
25	4,700	22×25	0.40	1.48	88	HP31E472MCXWPEC	
	6,800	22×30	0.40	1.89	70	HP31E682MCXWPEC	
		25×25	0.40	1.87	70	HP31E682MCYWPEC	
	10,000	22×35	0.40	2.06	48	HP31E103MCXWPEC	
		25×30	0.40	2.06	48	HP31E103MCYWPEC	
	15,000	30×25	0.40	2.06	48	HP31E103MCZWPEC	
		22×45	0.40	2.78	32	HP31E153MCXWPEC	
		25×35	0.40	2.67	32	HP31E153MCYWPEC	
		30×30	0.40	2.67	32	HP31E153MCZWPEC	
		35×25	0.40	2.67	32	HP31E153MCAWPEC	
		25×45	0.40	3.52	22	HP31E223MCYWPEC	
	22,000	30×35	0.40	3.41	22	HP31E223MCZWPEC	
		35×30	0.40	3.41	22	HP31E223MCAWPEC	
		30×50	0.40	4.45	17	HP31E333MCZWPEC	
		35×40	0.40	4.31	17	HP31E333MCAWPEC	
	35	3,300	22×25	0.35	1.38	165	HP31V332MCXWPEC
			22×30	0.35	1.57	115	HP31V472MCXWPEC
		4,700	25×25	0.35	1.56	115	HP31V472MCYWPEC
22×35			0.35	2.01	80	HP31V682MCXWPEC	
6,800		25×30	0.35	2.01	80	HP31V682MCYWPEC	
		30×25	0.35	2.01	80	HP31V682MCZWPEC	
10,000		22×45	0.35	2.27	55	HP31V103MCXWPEC	
		25×35	0.35	2.18	55	HP31V103MCYWPEC	
		30×30	0.35	2.18	55	HP31V103MCZWPEC	
		35×25	0.35	2.18	55	HP31V103MCAWPEC	
		25×50	0.35	3.03	35	HP31V153MCYWPEC	
		30×35	0.35	2.82	35	HP31V153MCZWPEC	
15,000		35×30	0.35	2.82	35	HP31V153MCAWPEC	
		30×45	0.35	3.73	25	HP31V223MCZWPEC	
		35×40	0.35	3.76	25	HP31V223MCAWPEC	
22,000		35×50	0.40	4.67	20	HP31V333MCAWPEC	
50		2,200	22×25	0.30	1.13	108	HP31H222MCXWPEC
			22×30	0.30	1.47	72	HP31H332MCXWPEC
	3,300	25×25	0.30	1.46	72	HP31H332MCYWPEC	
		22×35	0.30	1.67	50	HP31H472MCXWPEC	
	4,700	25×30	0.30	1.67	50	HP31H472MCYWPEC	
		30×25	0.30	1.67	50	HP31H472MCZWPEC	
	6,800	22×50	0.30	2.31	35	HP31H682MCXWPEC	
		25×40	0.30	2.21	35	HP31H682MCYWPEC	
		30×30	0.30	2.13	35	HP31H682MCZWPEC	
		35×25	0.30	2.13	35	HP31H682MCAWPEC	
	10,000	25×50	0.35	2.48	32	HP31H103MCYWPEC	
		30×35	0.35	2.30	32	HP31H103MCZWPEC	
		35×30	0.35	2.30	32	HP31H103MCAWPEC	
	15,000	30×50	0.35	3.21	25	HP31H153MCZWPEC	
		35×40	0.35	3.10	25	HP31H153MCAWPEC	

Rated Voltage (V. DC)	Capacitance (μF)	Case size øDXL(mm)	tanδ 20°C,120Hz	Ripple current (Arms)		Product name	
				85°C,120Hz	ESR(typ.) 20°C,100Hz (mΩ)		
63	1,500	22×25	0.25	1.08	159	HP31J152MCXWPEC	
		22×30	0.25	1.20	108	HP31J222MCXWPEC	
	2,200	25×25	0.25	1.19	108	HP31J222MCYWPEC	
		22×35	0.25	1.56	80	HP31J332MCXWPEC	
		25×30	0.25	1.56	80	HP31J332MCYWPEC	
	3,300	30×25	0.25	1.56	80	HP31J332MCZWPEC	
		22×45	0.25	1.84	60	HP31J472MCXWPEC	
		25×35	0.25	1.77	60	HP31J472MCYWPEC	
	4,700	30×30	0.25	1.77	60	HP31J472MCZWPEC	
		35×25	0.25	1.77	60	HP31J472MCAWPEC	
		25×50	0.25	2.42	40	HP31J682MCYWPEC	
6,800	30×35	0.25	2.25	40	HP31J682MCZWPEC		
	35×30	0.25	2.25	40	HP31J682MCAWPEC		
	30×45	0.35	2.52	35	HP31J103MCZWPEC		
10,000	35×40	0.35	2.53	35	HP31J103MCAWPEC		
	35×50	0.35	3.36	30	HP31J153MCAWPEC		
80	1,000	22×25	0.20	0.88	230	HP31K102MCXWPEC	
	1,500	22×30	0.20	1.15	155	HP31K152MCXWPEC	
		25×25	0.20	1.13	155	HP31K152MCYWPEC	
	2,200	22×40	0.20	1.34	105	HP31K222MCXWPEC	
		25×30	0.20	1.28	105	HP31K222MCYWPEC	
		30×25	0.20	1.28	105	HP31K222MCZWPEC	
	3,300	22×50	0.25	1.80	70	HP31K332MCXWPEC	
		25×40	0.25	1.72	70	HP31K332MCYWPEC	
		30×30	0.25	1.65	70	HP31K332MCZWPEC	
		35×25	0.25	1.65	70	HP31K332MCAWPEC	
		25×50	0.25	2.01	50	HP31K472MCYWPEC	
		30×40	0.25	1.96	50	HP31K472MCZWPEC	
	4,700	35×30	0.25	1.87	50	HP31K472MCAWPEC	
		30×50	0.25	2.56	35	HP31K682MCZWPEC	
		35×40	0.25	2.47	35	HP31K682MCAWPEC	
	100	1,000	22×30	0.20	0.94	180	HP32A102MCXWPEC
			25×25	0.20	0.93	180	HP32A102MCYWPEC
		1,500	22×35	0.20	1.22	120	HP32A152MCXWPEC
25×30			0.20	1.22	120	HP32A152MCYWPEC	
30×25			0.20	1.22	120	HP32A152MCZWPEC	
2,200		22×50	0.20	1.47	82	HP32A222MCXWPEC	
		25×40	0.20	1.41	82	HP32A222MCYWPEC	
		30×30	0.20	1.35	82	HP32A222MCZWPEC	
		35×25	0.20	1.35	82	HP32A222MCAWPEC	
		25×50	0.20	1.88	60	HP32A332MCYWPEC	
		30×40	0.20	1.83	60	HP32A332MCZWPEC	
3,300		35×30	0.20	1.75	60	HP32A332MCAWPEC	
		30×50	0.25	2.12	45	HP32A472MCZWPEC	
		35×40	0.25	2.05	45	HP32A472MCAWPEC	
6,800		35×50	0.25	2.68	35	HP32A682MCAWPEC	
160		390	22×25	0.15	1.50	365	HP32C391MCXWPEC
		470	22×30	0.15	1.76	305	HP32C471MCXWPEC
			25×25	0.15	1.74	305	HP32C471MCYWPEC
	560	22×35	0.15	2.03	255	HP32C561MCXWPEC	
		25×30	0.15	2.02	255	HP32C561MCYWPEC	
	680	22×40	0.15	2.36	210	HP32C681MCXWPEC	
		25×30	0.15	2.24	210	HP32C681MCYWPEC	
		30×25	0.15	2.24	210	HP32C681MCZWPEC	
	820	22×45	0.15	2.72	175	HP32C821MCXWPEC	
		25×35	0.15	2.61	175	HP32C821MCYWPEC	
		30×30	0.15	2.61	175	HP32C821MCZWPEC	
	1,000	22×50	0.15	3.13	145	HP32C102MCXWPEC	
		25×40	0.15	3.00	145	HP32C102MCYWPEC	
		30×30	0.15	2.88	145	HP32C102MCZWPEC	
		35×25	0.15	2.88	145	HP32C102MCAWPEC	
		25×45	0.15	3.44	120	HP32C122MCYWPEC	
		30×35	0.15	3.34	120	HP32C122MCZWPEC	
	1,200	35×30	0.15	3.34	120	HP32C122MCAWPEC	
30×40		0.15	3.91	95	HP32C152MCZWPEC		
1,500	35×35	0.15	3.96	95	HP32C152MCAWPEC		
	30×45	0.15	4.47	80	HP32C182MCZWPEC		
1,800	35×35	0.15	4.34	80	HP32C182MCAWPEC		

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180	330	22×25	0.15	1.38	375	HP32P331MCXWPEC
	390	22×30	0.15	1.60	320	HP32P391MCXWPEC
		25×25	0.15	1.58	320	HP32P391MCYWPEC
	470	22×30	0.15	1.76	265	HP32P471MCXWPEC
		25×25	0.15	1.74	265	HP32P471MCYWPEC
	560	22×35	0.15	2.03	225	HP32P561MCXWPEC
		25×30	0.15	2.03	225	HP32P561MCYWPEC
		30×25	0.15	2.03	225	HP32P561MCZWPEC
	680	22×40	0.15	2.36	185	HP32P681MCXWPEC
		25×35	0.15	2.35	185	HP32P681MCYWPEC
		30×25	0.15	2.24	185	HP32P681MCZWPEC
	820	22×45	0.15	2.72	155	HP32P821MCXWPEC
		25×40	0.15	2.72	155	HP32P821MCYWPEC
		30×30	0.15	2.61	155	HP32P821MCZWPEC
		35×25	0.15	2.61	155	HP32P821MCAWPEC
	1,000	25×45	0.15	3.14	125	HP32P102MCYWPEC
		30×35	0.15	3.04	125	HP32P102MCZWPEC
	1,200	35×25	0.15	2.88	125	HP32P102MCAWPEC
		25×50	0.15	3.59	105	HP32P122MCYWPEC
		30×40	0.15	3.49	105	HP32P122MCZWPEC
	1,500	35×30	0.15	3.34	105	HP32P122MCAWPEC
		30×45	0.15	4.08	85	HP32P152MCYWPEC
	1,800	35×35	0.15	3.96	85	HP32P152MCAWPEC
	1,800	35×40	0.15	4.50	70	HP32P182MCAWPEC
200	220	22×25	0.15	1.36	485	HP32D221MCXWPEC
	270	22×25	0.15	1.50	395	HP32D271MCXWPEC
	330	22×30	0.15	1.76	325	HP32D331MCXWPEC
		25×25	0.15	1.75	325	HP32D331MCYWPEC
	390	22×30	0.15	1.92	275	HP32D391MCXWPEC
		25×25	0.15	1.90	275	HP32D391MCYWPEC
	470	22×35	0.15	2.23	230	HP32D471MCXWPEC
		25×30	0.15	2.23	230	HP32D471MCYWPEC
		30×25	0.15	2.23	230	HP32D471MCZWPEC
	560	22×40	0.15	2.57	190	HP32D561MCXWPEC
		25×35	0.15	2.57	190	HP32D561MCYWPEC
		30×25	0.15	2.44	190	HP32D561MCZWPEC
	680	22×45	0.15	2.98	160	HP32D681MCXWPEC
		25×35	0.15	2.86	160	HP32D681MCYWPEC
		30×30	0.15	2.86	160	HP32D681MCZWPEC
		35×25	0.15	2.86	160	HP32D681MCAWPEC
	820	25×40	0.15	3.26	130	HP32D821MCYWPEC
		30×30	0.15	3.13	130	HP32D821MCZWPEC
		35×25	0.15	3.13	130	HP32D821MCAWPEC
	1,000	25×50	0.15	3.92	110	HP32D102MCYWPEC
		30×35	0.15	3.64	110	HP32D102MCZWPEC
		35×30	0.15	3.66	110	HP32D102MCAWPEC
	1,200	30×40	0.15	4.19	90	HP32D122MCZWPEC
		35×35	0.15	4.25	90	HP32D122MCAWPEC
1,500	35×40	0.15	4.93	75	HP32D152MCAWPEC	
1,800	35×50	0.15	5.84	70	HP32D182MCAWPEC	

Rated Voltage (V. DC)	Capacitance (μF)	Case size øDXL(mm)	tanδ 20°C,120Hz	Ripple current (Arms) 85°C,120Hz	ESR(typ.) 20°C,100Hz (mΩ)	Product name
250	220	22×25	0.15	1.36	485	HP32E221MCXWPEC
	270	22×30	0.15	1.60	395	HP32E271MCXWPEC
		25×25	0.15	1.58	395	HP32E271MCYWPEC
		22×35	0.15	1.87	325	HP32E331MCXWPEC
	330	25×30	0.15	1.86	325	HP32E331MCYWPEC
		22×35	0.15	2.04	275	HP32E391MCXWPEC
		25×30	0.15	2.04	275	HP32E391MCYWPEC
	390	30×25	0.15	2.04	275	HP32E391MCZWPEC
		22×40	0.15	2.35	230	HP32E471MCXWPEC
		25×35	0.15	2.35	230	HP32E471MCYWPEC
	470	30×25	0.15	2.24	230	HP32E471MCZWPEC
		35×25	0.15	2.38	230	HP32E471MCAWPEC
		22×50	0.15	2.81	190	HP32E561MCXWPEC
	560	25×40	0.15	2.69	190	HP32E561MCYWPEC
		30×30	0.15	2.59	190	HP32E561MCZWPEC
		35×25	0.15	2.59	190	HP32E561MCAWPEC
	680	25×45	0.15	3.11	160	HP32E681MCXWPEC
		30×35	0.15	3.01	160	HP32E681MCZWPEC
		35×30	0.15	3.01	160	HP32E681MCAWPEC
	820	25×50	0.15	3.55	130	HP32E821MCYWPEC
		30×40	0.15	3.47	130	HP32E821MCZWPEC
		35×30	0.15	3.31	130	HP32E821MCAWPEC
	1,000	30×45	0.15	4.00	110	HP32E102MCXWPEC
		35×35	0.15	3.88	110	HP32E102MCAWPEC
30×50		0.15	4.55	90	HP32E122MCXWPEC	
1,200	35×40	0.15	4.40	90	HP32E122MCAWPEC	
	35×50	0.15	5.34	75	HP32E152MCXWPEC	
350	100	22×25	0.15	0.76	1,065	HP32V101MCXWPEC
	120	22×30	0.15	0.89	885	HP32V121MCXWPEC
		25×25	0.15	0.88	885	HP32V121MCYWPEC
	150	22×30	0.15	0.99	710	HP32V151MCXWPEC
		25×25	0.15	0.98	710	HP32V151MCYWPEC
	180	22×35	0.15	1.15	590	HP32V181MCXWPEC
		25×30	0.15	1.15	590	HP32V181MCYWPEC
		30×25	0.15	1.15	590	HP32V181MCZWPEC
	220	22×40	0.15	1.34	485	HP32V221MCXWPEC
		25×35	0.15	1.34	485	HP32V221MCYWPEC
		30×25	0.15	1.28	485	HP32V221MCZWPEC
	270	22×50	0.15	1.63	395	HP32V271MCXWPEC
		25×40	0.15	1.56	395	HP32V271MCYWPEC
		30×30	0.15	1.50	395	HP32V271MCZWPEC
		35×25	0.15	1.50	395	HP32V271MCAWPEC
	330	25×45	0.15	1.80	325	HP32V331MCYWPEC
		30×35	0.15	1.75	325	HP32V331MCZWPEC
		35×30	0.15	1.75	325	HP32V331MCAWPEC
	390	25×50	0.15	2.04	275	HP32V391MCYWPEC
		30×40	0.15	1.99	275	HP32V391MCZWPEC
		35×30	0.15	1.90	275	HP32V391MCAWPEC
	470	30×40	0.15	2.19	230	HP32V471MCZWPEC
		35×35	0.15	2.22	230	HP32V471MCAWPEC
		30×50	0.15	2.59	190	HP32V561MCXWPEC
560	35×40	0.15	2.54	190	HP32V561MCAWPEC	
	680	35×45	0.15	2.88	165	HP32V681MCAWPEC

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Rated Voltage (V. DC)	Capacitance (μF)	Case size øDXL(mm)	tanδ 20°C,120Hz	Ripple current (Arms) 85°C,120Hz	ESR(typ.) 20°C,100Hz (mΩ)	Product name
400	100	20×25	0.20	0.89	1,070	HP32G101MCWS2WPEC
		20×30	0.20	1.04	890	HP32G121MCWS3WPEC
	120	22×25	0.20	1.00	890	HP32G121MCXS2WPEC
		20×35	0.20	1.24	720	HP32G151MCWS4WPEC
	150	22×30	0.20	1.32	600	HP32G181MCXS3WPEC
		25×25	0.20	1.29	600	HP32G181MCYS2WPEC
	180	22×35	0.20	1.54	490	HP32G221MCXS4WPEC
		25×30	0.20	1.52	490	HP32G221MCYS3WPEC
	220	22×40	0.20	1.80	400	HP32G271MCXS5WPEC
		25×35	0.20	1.78	400	HP32G271MCYS4WPEC
	270	30×25	0.20	1.69	400	HP32G271MCZS2WPEC
		22×50	0.20	2.17	330	HP32G331MCXS7WPEC
	330	25×40	0.20	2.07	330	HP32G331MCYS5WPEC
		30×30	0.20	1.98	330	HP32G331MCZS3WPEC
		25×45	0.20	2.36	280	HP32G391MCYS6WPEC
	390	30×35	0.20	2.27	280	HP32G391MCZS4WPEC
		35×25	0.20	2.16	280	HP32G391MCAS2WPEC
	470	25×50	0.20	2.70	230	HP32G471MCYS7WPEC
		30×40	0.20	2.61	230	HP32G471MCZS5WPEC
		35×30	0.20	2.50	230	HP32G471MCAS3WPEC
560	30×45	0.20	2.98	200	HP32G561MCZS6WPEC	
	35×35	0.20	2.87	200	HP32G561MCAS4WPEC	
680	30×50	0.20	3.41	160	HP32G681MCZS7WPEC	
	35×40	0.20	3.31	160	HP32G681MCAS5WPEC	
820	35×45	0.20	3.79	140	HP32G821MCAS6WPEC	
1,000	35×50	0.20	4.35	110	HP32G102MCAS7WPEC	
420	82	20×25	0.20	0.81	1,340	HP3420V820MCWS2WPEC
		20×30	0.20	1.04	920	HP3420V121MCWS3WPEC
	120	22×25	0.20	1.00	920	HP3420V121MCXS2WPEC
		20×35	0.20	1.24	740	HP3420V151MCWS4WPEC
	150	22×30	0.20	1.20	740	HP3420V151MCXS3WPEC
		25×25	0.20	1.18	740	HP3420V151MCYS2WPEC
	180	22×35	0.20	1.39	620	HP3420V181MCXS4WPEC
		25×30	0.20	1.38	620	HP3420V181MCYS3WPEC
	220	22×40	0.20	1.62	500	HP3420V221MCXS5WPEC
		25×35	0.20	1.61	500	HP3420V221MCYS4WPEC
	270	30×25	0.20	1.52	500	HP3420V221MCZS2WPEC
		22×45	0.20	1.88	410	HP3420V271MCXS6WPEC
		25×40	0.20	1.87	410	HP3420V271MCYS5WPEC
	330	30×30	0.20	1.79	410	HP3420V271MCZS3WPEC
		25×45	0.20	2.17	340	HP3420V331MCYS6WPEC
	390	35×25	0.20	1.98	340	HP3420V331MCAS2WPEC
		25×50	0.20	2.46	290	HP3420V391MCYS7WPEC
	470	30×35	0.20	2.27	290	HP3420V391MCZS4WPEC
		35×30	0.20	2.28	290	HP3420V391MCAS3WPEC
	560	30×40	0.20	2.61	240	HP3420V471MCZS5WPEC
35×35		0.20	2.63	240	HP3420V471MCAS4WPEC	
680	30×50	0.20	3.10	200	HP3420V561MCZS7WPEC	
	35×40	0.20	3.01	200	HP3420V561MCAS5WPEC	
820	35×45	0.20	3.45	170	HP3420V681MCAS6WPEC	
820	35×50	0.20	3.94	140	HP3420V821MCAS7WPEC	

Rated Voltage (V. DC)	Capacitance (μF)	Case size øDXL(mm)	tanδ 20°C,120Hz	Ripple current (Arms) 85°C,120Hz	ESR(typ.) 20°C,100Hz (mΩ)	Product name
450	82	20×25	0.20	0.81	1,340	HP32W820MCWS2WPEC
		100	20×30	0.20	0.95	1,100
	120	20×35	0.20	1.11	920	HP32W121MCWS4WPEC
		22×25	0.20	1.01	920	HP32W121MCXS2WPEC
	150	22×30	0.20	1.20	740	HP32W151MCXS3WPEC
		25×25	0.20	1.18	740	HP32W151MCYS2WPEC
	180	22×35	0.20	1.39	620	HP32W181MCXS4WPEC
		25×30	0.20	1.38	620	HP32W181MCYS3WPEC
	220	22×40	0.20	1.62	500	HP32W221MCXS5WPEC
		25×35	0.20	1.61	500	HP32W221MCYS4WPEC
		30×25	0.20	1.52	500	HP32W221MCZS2WPEC
	270	22×45	0.20	1.88	410	HP32W271MCXS6WPEC
		25×40	0.20	1.87	410	HP32W271MCYS5WPEC
		30×30	0.20	1.79	410	HP32W271MCZS3WPEC
	330	25×45	0.20	2.17	340	HP32W331MCYS6WPEC
		35×25	0.20	1.98	340	HP32W331MCAS2WPEC
	390	25×50	0.20	2.46	290	HP32W391MCYS7WPEC
		30×35	0.20	2.27	290	HP32W391MCZS4WPEC
	470	35×30	0.20	2.28	290	HP32W391MCAS3WPEC
		30×40	0.20	2.61	240	HP32W471MCZS5WPEC
560	35×35	0.20	2.63	240	HP32W471MCAS4WPEC	
	30×50	0.20	3.10	200	HP32W561MCZS7WPEC	
680	35×40	0.20	3.01	200	HP32W561MCAS5WPEC	
	35×45	0.20	3.45	170	HP32W681MCAS6WPEC	
820	35×50	0.20	3.94	140	HP32W821MCAS7WPEC	

Life time graph

Useful life depending on ambient temperature T_a and ripple current operating conditions I_r versus rated ripple current at 85°C, 120Hz

