

# SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

## HP3 Series

Useful of 4,000 hours at 85°C (Warranty of 2,000 hours at 85°C)

• Conform RoHS

### Features

- Rendered about 20% to 30% smaller than the preceding HPR and HFR type predecessor thanks to etching foil magnification increase.



### 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 3mA, whichever is smaller or less [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)
High temp. Load life test	After 85°C, 2000h, rated voltage with specified ripple current application 16 ~ 350V.DC / Capacitance variation : Initial value ±15% Dissipation factor : 175% of less specified initial value Leakage current : Not greater than the specified initial value 400 ~ 450V.DC / Capacitance variation : Initial value ±20% Dissipation factor : 200% of less specified initial value Leakage current : Not greater than the specified initial value
Others	JIS C 5101-4.

### 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
	160~450V	0.7	1.0	1.1	1.3

A continuous load should be avoided over 10 A at the terminal in accordance with the permissible current.

Product code : (Example) HP3 Series 16V 10,000µF ±20%

**HP3 1C 103 M C X WP EC**

Type of series: HP3

Rated voltage code: EC

Capacitance code: WP

Capacitance tolerance code: X

Terminal code: C

Case dia code: M

Without plate (standard): C

PVC-Free (standard): X

Lead-Free and Without plate (standard): WP

Case dia code	Code
20	W
22	X
25	Y
30	Z
35	A

Refer to page (85) for other terminal shape available on request

### Standard Products Table

Rated Voltage Code (Surge 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
16 1C (20)	6800	22×25	0.50	1.78	51	HP31C682MCXWPEC
		22×30	0.50	1.94	41	HP31C103MCXWPEC
	10000	25×25	0.50	1.92	41	HP31C103MCYWPEC
		22×40	0.50	2.65	28	HP31C153MCXWPEC
		25×30	0.50	2.52	28	HP31C153MCYWPEC
	15000	30×25	0.50	2.52	28	HP31C153MCZWPEC
		25×45	0.50	3.52	22	HP31C223MCYWPEC
		30×30	0.50	3.23	22	HP31C223MCZWPEC
		35×25	0.50	3.23	22	HP31C223MCAWPEC
	33000	30×45	0.50	4.28	17	HP31C333MCZWPEC
		35×35	0.50	4.12	17	HP31C333MCAWPEC
	25 1E (32)	4700	22×25	0.40	1.48	88
22×30			0.40	1.89	70	HP31E682MCXWPEC
6800		25×25	0.40	1.87	70	HP31E682MCYWPEC
		22×35	0.40	2.06	48	HP31E103MCXWPEC
		25×30	0.40	2.06	48	HP31E103MCYWPEC
10000		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
15000		35×25	0.40	2.67	32	HP31E153MCAWPEC
		25×45	0.40	3.52	22	HP31E223MCYWPEC
		30×35	0.40	3.41	22	HP31E223MCZWPEC
22000		35×30	0.40	3.41	22	HP31E223MCAWPEC
		30×50	0.40	4.45	17	HP31E333MCZWPEC
		35×40	0.40	4.31	17	HP31E333MCAWPEC

Rated Voltage Code (Surge 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
35 1V (44)	3300	22×25	0.35	1.38	165	HP31V332MCXWPEC
		22×30	0.35	1.57	115	HP31V472MCXWPEC
	4700	25×25	0.35	1.56	115	HP31V472MCYWPEC
		22×35	0.35	2.01	80	HP31V682MCXWPEC
		25×30	0.35	2.01	80	HP31V682MCYWPEC
	6800	30×25	0.35	2.01	80	HP31V682MCZWPEC
		22×45	0.35	2.27	55	HP31V103MCXWPEC
		25×35	0.35	2.18	55	HP31V103MCYWPEC
		30×30	0.35	2.18	55	HP31V103MCZWPEC
	10000	35×25	0.35	2.18	55	HP31V103MCAWPEC
		25×50	0.35	3.03	35	HP31V153MCYWPEC
		30×35	0.35	2.82	35	HP31V153MCZWPEC
	15000	35×30	0.35	2.82	35	HP31V153MCAWPEC
		30×45	0.35	3.73	25	HP31V223MCZWPEC
		35×40	0.35	3.76	25	HP31V223MCAWPEC
	22000	30×40	0.35	3.76	25	HP31V223MCAWPEC
		33000	35×50	0.40	4.67	20

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50 1H (63)	2200	22×25	0.30	1.13	108	HP31H222MCXWPEC
		22×30	0.30	1.47	72	HP31H332MCXWPEC
		25×25	0.30	1.46	72	HP31H332MCYWPEC
	4700	22×35	0.30	1.67	50	HP31H472MCXWPEC
		25×30	0.30	1.67	50	HP31H472MCYWPEC
		30×25	0.30	1.67	50	HP31H472MCZWPEC
	6800	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
	10000	25×50	0.35	2.48	32	HP31H103MCYWPEC
		30×35	0.35	2.30	32	HP31H103MCZWPEC
		35×30	0.35	2.30	32	HP31H103MCAWPEC
		30×50	0.35	3.21	25	HP31H153MCZWPEC
	63 1J (79)	1500	22×25	0.25	1.08	159
22×30			0.25	1.20	108	HP31J222MCXWPEC
2200		25×25	0.25	1.19	108	HP31J222MCYWPEC
		22×35	0.25	1.56	80	HP31J332MCXWPEC
		25×30	0.25	1.56	80	HP31J332MCYWPEC
3300		30×25	0.25	1.56	80	HP31J332MCZWPEC
		22×45	0.25	1.84	60	HP31J472MCXWPEC
		25×35	0.25	1.77	60	HP31J472MCYWPEC
4700		30×30	0.25	1.77	60	HP31J472MCZWPEC
		35×25	0.25	1.77	60	HP31J472MCAWPEC
		25×50	0.25	2.42	40	HP31J682MCYWPEC
6800		30×35	0.25	2.25	40	HP31J682MCZWPEC
		35×30	0.25	2.25	40	HP31J682MCAWPEC
		30×45	0.35	2.52	35	HP31J103MCZWPEC
10000		35×40	0.35	2.53	35	HP31J103MCAWPEC
	35×50	0.35	3.36	30	HP31J153MCAWPEC	
	1000	22×25	0.20	0.88	230	HP31K102MCXWPEC
80 1K (100)	1500	22×30	0.20	1.15	155	HP31K152MCXWPEC
		25×25	0.20	1.13	155	HP31K152MCYWPEC
	2200	22×40	0.20	1.34	105	HP31K222MCXWPEC
		25×30	0.20	1.28	105	HP31K222MCYWPEC
		30×25	0.20	1.28	105	HP31K222MCZWPEC
	3300	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
	4700	25×50	0.25	2.01	50	HP31K472MCYWPEC
		30×40	0.25	1.96	50	HP31K472MCZWPEC
		35×30	0.25	1.87	50	HP31K472MCAWPEC
	6800	30×50	0.25	2.56	35	HP31K682MCZWPEC
		35×40	0.25	2.47	35	HP31K682MCAWPEC
	100 2A (125)	1000	22×30	0.20	0.94	180
25×25			0.20	0.93	180	HP32A102MCYWPEC
22×35			0.20	1.22	120	HP32A152MCXWPEC
1500		25×30	0.20	1.22	120	HP32A152MCYWPEC
		30×25	0.20	1.22	120	HP32A152MCZWPEC
2200		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
3300		25×50	0.20	1.88	60	HP32A332MCYWPEC
		30×40	0.20	1.83	60	HP32A332MCZWPEC
		35×30	0.20	1.75	60	HP32A332MCAWPEC
4700		30×50	0.25	2.12	45	HP32A472MCZWPEC
		35×40	0.25	2.05	45	HP32A472MCAWPEC
6800		35×50	0.25	2.68	35	HP32A682MCAWPEC

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160 2C (200)	390	22×25	0.15	1.50	365	HP32C391MCXWPEC
		22×30	0.15	1.76	305	HP32C471MCXWPEC
	470	25×25	0.15	1.74	305	HP32C471MCYWPEC
		22×35	0.15	2.03	255	HP32C561MCXWPEC
	560	25×30	0.15	2.02	255	HP32C561MCYWPEC
		22×40	0.15	2.36	210	HP32C681MCXWPEC
	680	25×30	0.15	2.24	210	HP32C681MCYWPEC
		30×25	0.15	2.24	210	HP32C681MCZWPEC
		22×45	0.15	2.72	175	HP32C821MCXWPEC
	820	25×35	0.15	2.61	175	HP32C821MCYWPEC
		30×30	0.15	2.61	175	HP32C821MCZWPEC
		22×50	0.15	3.13	145	HP32C102MCXWPEC
	1000	25×40	0.15	3.00	145	HP32C102MCYWPEC
		30×30	0.15	2.88	145	HP32C102MCZWPEC
		35×25	0.15	2.88	145	HP32C102MCAWPEC
	1200	25×45	0.15	3.44	120	HP32C122MCYWPEC
		30×35	0.15	3.34	120	HP32C122MCZWPEC
		35×30	0.15	3.34	120	HP32C122MCAWPEC
		30×40	0.15	3.91	95	HP32C152MCZWPEC
	1500	35×35	0.15	3.96	95	HP32C152MCAWPEC
		30×45	0.15	4.47	80	HP32C182MCYWPEC
35×35		0.15	4.34	80	HP32C182MCAWPEC	
180 2P (225)	330	22×25	0.15	1.38	375	HP32P331MCXWPEC
		22×30	0.15	1.60	320	HP32P391MCXWPEC
	390	25×25	0.15	1.58	320	HP32P391MCYWPEC
		22×30	0.15	1.76	265	HP32P471MCXWPEC
	470	25×25	0.15	1.74	265	HP32P471MCYWPEC
		22×35	0.15	2.03	225	HP32P561MCXWPEC
	560	25×30	0.15	2.03	225	HP32P561MCYWPEC
		30×25	0.15	2.03	225	HP32P561MCZWPEC
		22×40	0.15	2.36	185	HP32P681MCXWPEC
	680	25×35	0.15	2.35	185	HP32P681MCYWPEC
		30×25	0.15	2.24	185	HP32P681MCZWPEC
		22×45	0.15	2.72	155	HP32P821MCXWPEC
	820	25×40	0.15	2.72	155	HP32P821MCYWPEC
		30×30	0.15	2.61	155	HP32P821MCZWPEC
		35×25	0.15	2.61	155	HP32P821MCAWPEC
		25×45	0.15	3.14	125	HP32P102MCYWPEC
	1000	30×35	0.15	3.04	125	HP32P102MCZWPEC
		35×25	0.15	2.88	125	HP32P102MCAWPEC
25×50		0.15	3.59	105	HP32P122MCYWPEC	
1200	30×40	0.15	3.49	105	HP32P122MCZWPEC	
	35×30	0.15	3.34	105	HP32P122MCAWPEC	
1500	30×45	0.15	4.08	85	HP32P152MCYWPEC	
	35×35	0.15	3.96	85	HP32P152MCZWPEC	
1800	35×40	0.15	4.50	70	HP32P182MCAWPEC	

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200 2D (250)	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
	1000	25×50	0.15	3.92	110	HP32D102MCYWPEC
30×35		0.15	3.64	110	HP32D102MCZWPEC	
35×30		0.15	3.66	110	HP32D102MCAWPEC	
1200	30×40	0.15	4.19	90	HP32D122MCZWPEC	
	35×35	0.15	4.25	90	HP32D122MCAWPEC	
1500	35×40	0.15	4.93	75	HP32D152MCAWPEC	
1800	35×50	0.15	5.84	70	HP32D182MCAWPEC	
250 2E (300)	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
	330	22×35	0.15	1.87	325	HP32E331MCXWPEC
		25×30	0.15	1.86	325	HP32E331MCYWPEC
	390	22×35	0.15	2.04	275	HP32E391MCXWPEC
		25×30	0.15	2.04	275	HP32E391MCYWPEC
		30×25	0.15	2.04	275	HP32E391MCZWPEC
	470	22×40	0.15	2.35	230	HP32E471MCXWPEC
		25×35	0.15	2.35	230	HP32E471MCYWPEC
		30×25	0.15	2.24	230	HP32E471MCZWPEC
	560	35×25	0.15	2.38	230	HP32E471MCAWPEC
		22×50	0.15	2.81	190	HP32E561MCXWPEC
		25×40	0.15	2.69	190	HP32E561MCYWPEC
		30×30	0.15	2.59	190	HP32E561MCZWPEC
	680	35×25	0.15	2.59	190	HP32E561MCAWPEC
		25×45	0.15	3.11	160	HP32E681MCYWPEC
		30×35	0.15	3.01	160	HP32E681MCZWPEC
	820	35×30	0.15	3.01	160	HP32E681MCAWPEC
		25×50	0.15	3.55	130	HP32E821MCYWPEC
30×40		0.15	3.47	130	HP32E821MCZWPEC	
1000	35×30	0.15	3.31	130	HP32E821MCAWPEC	
	30×45	0.15	4.00	110	HP32E102MCZWPEC	
	35×35	0.15	3.88	110	HP32E102MCAWPEC	
1200	30×50	0.15	4.55	90	HP32E122MCZWPEC	
	35×40	0.15	4.40	90	HP32E122MCAWPEC	
1500	35×50	0.15	5.34	75	HP32E152MCAWPEC	

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350 2V (400)	100	22×25	0.15	0.76	1065	HP32V101MCXWPEC
		22×30	0.15	0.89	885	HP32V121MCXWPEC
	120	25×25	0.15	0.88	885	HP32V121MCYWPEC
		22×30	0.15	0.99	710	HP32V151MCXWPEC
	150	25×25	0.15	0.98	710	HP32V151MCYWPEC
		22×35	0.15	1.15	590	HP32V181MCXWPEC
	180	25×30	0.15	1.15	590	HP32V181MCYWPEC
		30×25	0.15	1.15	590	HP32V181MCZWPEC
		22×40	0.15	1.34	485	HP32V221MCXWPEC
	220	25×35	0.15	1.34	485	HP32V221MCYWPEC
		30×25	0.15	1.28	485	HP32V221MCZWPEC
		22×50	0.15	1.63	395	HP32V271MCXWPEC
	270	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	HP32V471MCXWPEC	
	35×35	0.15	2.22	230	HP32V471MCAWPEC	
560	30×50	0.15	2.59	190	HP32V561MCZWPEC	
	35×40	0.15	2.54	190	HP32V561MCAWPEC	
680	35×45	0.15	2.88	165	HP32V681MCAWPEC	
400 2G (450)	100	20×25	0.20	0.89	1065	HP32G101MCWS2WPEC
	120	20×30	0.20	1.04	885	HP32G121MCWS3WPEC
		22×25	0.20	1.00	885	HP32G121MCXS2WPEC
	150	20×35	0.20	1.24	710	HP32G151MCWS4WPEC
		22×30	0.20	1.20	710	HP32G151MCXS3WPEC
	180	25×25	0.20	1.18	710	HP32G151MCYS2WPEC
		22×35	0.20	1.38	590	HP32G181MCXS4WPEC
	220	25×30	0.20	1.38	590	HP32G181MCYS3WPEC
		22×40	0.20	1.62	485	HP32G221MCXS5WPEC
		25×30	0.20	1.52	485	HP32G221MCYS3WPEC
	270	30×25	0.20	1.52	485	HP32G221MCZS2WPEC
		22×45	0.20	1.88	395	HP32G271MCXS6WPEC
		25×35	0.20	1.78	395	HP32G271MCYS4WPEC
		30×30	0.20	1.79	395	HP32G271MCZS3WPEC
	330	35×25	0.20	1.79	395	HP32G271MCAS2WPEC
		22×50	0.20	2.17	325	HP32G331MCXS7WPEC
		25×40	0.20	2.07	325	HP32G331MCYS5WPEC
	390	30×30	0.20	1.98	325	HP32G331MCZS3WPEC
		35×25	0.20	1.98	325	HP32G331MCAS2WPEC
		25×45	0.20	2.36	275	HP32G391MCYS6WPEC
470	30×35	0.20	2.27	275	HP32G391MCZS4WPEC	
	35×30	0.20	2.28	275	HP32G391MCAS3WPEC	
	30×40	0.20	2.61	230	HP32G471MCZS5WPEC	
560	35×35	0.20	2.63	230	HP32G471MCAS4WPEC	
	30×45	0.20	2.98	190	HP32G561MCZS6WPEC	
	35×35	0.20	2.87	190	HP32G561MCAS4WPEC	
680	35×40	0.20	3.31	165	HP32G681MCAS5WPEC	
820	35×50	0.20	3.94	137	HP32G821MCAS7WPEC	

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# SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

Rated Voltage Code (Surge 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
420 420V (470)	82	20×25	0.20	0.81	1340	HP3420V820MCWS2WPEC
	100	20×30	0.20	0.95	1100	HP3420V101MCWS3WPEC
		22×25	0.20	0.92	1100	HP3420V101MCXS2WPEC
	120	20×30	0.20	1.04	915	HP3420V121MCWS3WPEC
	150	20×35	0.20	1.24	735	HP3420V151MCWS4WPEC
		22×30	0.20	1.20	735	HP3420V151MCXS3WPEC
	180	25×25	0.20	1.18	735	HP3420V151MCYS2WPEC
		22×35	0.20	1.39	610	HP3420V181MCXS4WPEC
		25×30	0.20	1.38	610	HP3420V181MCYS3WPEC
	180	30×25	0.20	1.38	610	HP3420V181MCZS2WPEC
		22×40	0.20	1.62	500	HP3420V221MCXS5WPEC
	220	25×35	0.20	1.61	500	HP3420V221MCYS4WPEC
		30×25	0.20	1.52	500	HP3420V221MCZS2WPEC
		22×50	0.20	1.96	407	HP3420V271MCXS7WPEC
	270	25×40	0.20	1.87	407	HP3420V271MCYS5WPEC
		30×30	0.20	1.79	407	HP3420V271MCZS3WPEC
		35×25	0.20	1.79	407	HP3420V271MCAS2WPEC
	330	25×45	0.20	2.17	335	HP3420V331MCYS6WPEC
		30×35	0.20	2.08	335	HP3420V331MCZS4WPEC
		35×30	0.20	2.10	335	HP3420V331MCAS3WPEC
	390	25×50	0.20	2.46	283	HP3420V391MCYS7WPEC
		30×40	0.20	2.38	283	HP3420V391MCZS5WPEC
	390	35×30	0.20	2.28	283	HP3420V391MCAS3WPEC
		30×45	0.20	2.73	235	HP3420V471MCZS6WPEC
	470	35×35	0.20	2.63	235	HP3420V471MCAS4WPEC
		30×50	0.20	3.10	200	HP3420V561MCZS7WPEC
	560	35×40	0.20	3.01	200	HP3420V561MCAS5WPEC
	680	35×45	0.20	3.45	170	HP3420V681MCAS6WPEC
820	35×50	0.20	3.94	135	HP3420V821MCAS7WPEC	

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450 2W (500)	82	20×25	0.20	0.81	1340	HP32W820MCWS2WPEC
	100	20×30	0.20	0.95	1100	HP32W101MCWS3WPEC
		22×25	0.20	0.92	1100	HP32W101MCXS2WPEC
	120	20×35	0.20	1.11	915	HP32W121MCWS4WPEC
		22×30	0.20	1.07	915	HP32W121MCXS3WPEC
		25×25	0.20	1.06	915	HP32W121MCYS2WPEC
	150	22×35	0.20	1.26	735	HP32W151MCZS4WPEC
		25×30	0.20	1.26	735	HP32W151MCYS3WPEC
		30×25	0.20	1.26	735	HP32W151MCZS2WPEC
	180	22×40	0.20	1.46	610	HP32W181MCXS5WPEC
		25×30	0.20	1.38	610	HP32W181MCYS3WPEC
		30×25	0.20	1.38	610	HP32W181MCZS2WPEC
	220	22×45	0.20	1.70	500	HP32W221MCZS6WPEC
		25×35	0.20	1.61	500	HP32W221MCYS4WPEC
		30×30	0.20	1.62	500	HP32W221MCZS3WPEC
		35×25	0.20	1.62	500	HP32W221MCAS2WPEC
	270	22×50	0.20	1.96	407	HP32W271MCXS7WPEC
		25×40	0.20	1.87	407	HP32W271MCYS5WPEC
		30×30	0.20	1.79	407	HP32W271MCZS3WPEC
		35×25	0.20	1.79	407	HP32W271MCAS2WPEC
	330	25×50	0.20	2.26	335	HP32W331MCYS7WPEC
		30×35	0.20	2.08	335	HP32W331MCZS4WPEC
	390	30×40	0.20	2.38	283	HP32W391MCZS5WPEC
		35×30	0.20	2.28	283	HP32W391MCAS3WPEC
	470	30×45	0.20	2.73	235	HP32W471MCZS6WPEC
		35×35	0.20	2.63	235	HP32W471MCAS4WPEC
	560	35×40	0.20	3.01	200	HP32W561MCAS5WPEC
	680	35×45	0.20	3.45	170	HP32W681MCAS6WPEC

## 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

