

# ALUMINUM ELECTROLYTIC CAPACITORS

## HP3 Series

- Life rating to 2,000 hours at 85°C
- Temperature range -40°C to +85°C

## Standard Size

- Approximately 20% to 30% smaller than its HPR and HFR predecessors



- This model offers R: 2-Claw Terminal as standard.  
S: 4-Claw Terminal or U: Straight Short Terminal is available with Case Sizes of 35 X 50, 40 X 36, 40 X 41 and 40 X 51.  
R: 2-Claw Terminal is also available with Case Size 35 X 50.  
Place the appropriate designation in the Part Number. (R is shown except for Case Sizes listed above, then S is shown).

### Ripple Current Correction Coefficient

Temperature (°C)	40	60	70	85
16 ~ 450V	1.8	1.4	1.2	1.0

Frequency (Hz)	50/60	120	300	1K	≥10K
16 ~ 100V	0.7	1.0	1.1	1.2	1.2
160 ~ 450V	0.7	1.0	1.1	1.3	1.4

Rated Voltage (WVDC)	Part Number	Capacitance	Case Size ØD x L (mm)	Maximum Ripple Current (A rms) @85° C, 120Hz	Typical ESR (mΩ) @20° C, 120Hz	Typical ESL (nH)
16 Volts (Code: 1C)	HP31C682MRX	6,800	22 X 25	1.78	105	10
	HP31C103MRX	10,000	22 X 30	1.94	75	13
	HP31C103MRY	10,000	25 X 25	1.92	75	13
	HP31C153MRX	15,000	22 X 40	2.65	50	13
	HP31C153MRY	15,000	25 X 30	2.52	50	13
	HP31C153MRZ	15,000	30 X 25	2.52	50	13
	HP31C223MRY	22,000	25 X 45	3.52	35	13
	HP31C223MRZ	22,000	30 X 30	3.23	35	13
	HP31C223MRA	22,000	35 X 25	3.23	35	13
	HP31C333MRZ	33,000	30 X 45	4.28	25	15
HP31C333MRA	33,000	35 X 35	4.12	25	15	
25 Volts (Code: 1E)	HP31E472MRX	4,700	22 X 25	1.48	135	10
	HP31E682MRX	6,800	22 X 30	1.89	95	13
	HP31E682MRY	6,800	25 X 25	1.87	95	13
	HP31E103MRX	10,000	22 X 35	2.06	65	13
	HP31E103MRY	10,000	25 X 30	2.06	65	13
	HP31E103MRZ	10,000	30 X 25	2.06	65	13
	HP31E153MRX	15,000	22 X 45	2.78	45	15
	HP31E153MRY	15,000	25 X 35	2.67	45	15
	HP31E153MRZ	15,000	30 X 30	2.67	45	15
	HP31E153MRA	15,000	35 X 25	2.67	45	15
	HP31E223MRY	22,000	25 X 45	3.52	30	15
	HP31E223MRZ	22,000	30 X 35	3.41	30	15
	HP31E223MRA	22,000	35 X 30	3.41	30	15
	HP31E333MRZ	33,000	30 X 50	4.45	20	17
	HP31E333MRA	33,000	35 X 40	4.31	20	17

For nonstandard products contact Hitachi AIC.

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<b>35 Volts (Code: 1V)</b>	HP31V332MRX	3,300	22 X 25	1.38	165	10
	HP31V472MRX	4,700	22 X 30	1.57	115	11
	HP31V472MRY	4,700	25 X 25	1.56	115	11
	HP31V682MRX	6,800	22 X 35	2.01	80	13
	HP31V682MRY	6,800	25 X 30	2.01	80	13
	HP31V682MRZ	6,800	30 X 25	2.01	80	13
	HP21V103MRX	10,000	22 X 45	2.27	55	15
	HP21V103MRY	10,000	25 X 35	2.18	55	15
	HP21V103MRZ	10,000	30 X 30	2.18	55	15
	HP31V103MRA	10,000	35 X 25	2.18	55	15
	HP31V153MRY	15,000	25 X 50	3.03	35	15
	HP31V153MRZ	15,000	30 X 35	2.82	35	15
	HP31V153MRA	15,000	35 X 30	2.82	35	15
	HP31V223MRZ	22,000	30 X 45	3.73	25	20
	HP31V223MRA	22,000	35 X 40	3.76	25	20
HP31V333MRA	33,000	35 X 50	4.67	20	25	
<b>50 Volts (Code: 1H)</b>	HP31H222MRX	2,200	22 X 25	1.13	165	13
	HP31H332MRX	3,300	22 X 30	1.47	110	13
	HP31H332MRY	3,300	25 X 25	1.46	110	13
	HP31H472MRX	4,700	22 X 35	1.67	75	15
	HP31H472MRY	4,700	25 X 30	1.67	75	15
	HP31H472MRZ	4,700	30 X 25	1.67	75	15
	HP31H682MRX	6,800	22 X 50	2.31	55	15
	HP31H682MRY	6,800	25 X 40	2.21	55	15
	HP31H682MRZ	6,800	30 X 30	2.13	55	15
	HP31H682MRA	6,800	35 X 25	2.13	55	15
	HP31H103MRY	10,000	25 X 50	2.48	35	20
	HP31H103MRZ	10,000	30 X 35	2.30	35	20
	HP31H103MRA	10,000	35 X 30	2.30	35	20
	HP31H152MRZ	15,000	30 X 50	3.21	25	25
	HP31H152MRA	15,000	35 X 40	3.10	25	25
<b>63 Volts (Code: 1J)</b>	HP31J152MRX	1,500	22 X 25	1.08	215	15
	HP31J222MRX	2,200	22 X 30	1.20	145	15
	HP31J222MRY	2,200	25 X 25	1.19	145	15
	HP31J332MRX	3,300	22 X 35	1.56	100	16
	HP31J332MRY	3,300	25 X 30	1.56	100	16
	HP31J332MRZ	3,300	30 X 25	1.56	100	16
	HP31J472MRX	4,700	22 X 45	1.84	70	20
	HP31J472MRY	4,700	25 X 35	1.77	70	20
	HP31J472MRZ	4,700	30 X 30	1.77	70	20
	HP31J472MRA	4,700	35 X 25	1.77	70	20
	HP31J682MRY	6,800	25 X 50	2.42	50	25
	HP31J682MRZ	6,800	30 X 35	2.25	50	25
	HP31J682MRA	6,800	35 X 30	2.25	50	25
	HP31J103MRZ	10,000	30 X 45	2.52	35	30
	HP31J103MRA	10,000	35 X 40	2.53	35	30
HP31J153MRA	15,000	35 X 50	3.36	25	33	

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Rated Voltage (WVDC)	Part Number	Capacitance	Case Size ØD x L (mm)	Maximum Ripple Current (A rms) @85°C, 120Hz	Typical ESR (mΩ) @20°C, 120Hz	Typical ESL (nH)
80 Volts (Code: 1K)	HP31K102MRX	1,000	22 X 25	0.88	285	15
	HP31K152MRX	1,500	22 X 30	1.15	190	15
	HP31K152MRY	1,500	25 X 25	1.13	190	15
	HP31K222MRX	2,200	22 X 40	1.34	130	20
	HP31K222MRY	2,200	25 X 30	1.28	130	20
	HP31K222MRZ	2,200	30 X 25	1.28	130	20
	HP31K332MRX	3,300	22 X 50	1.80	90	25
	HP31K332MRY	3,300	25 X 40	1.72	90	25
	HP31K332MRZ	3,300	30 X 30	1.65	90	25
	HP31K332MRA	3,300	35 X 25	1.65	90	25
	HP31K472MRY	4,700	25 X 50	2.01	60	30
	HP31K472MRZ	4,700	30 X 40	1.96	60	30
	HP31K472MRA	4,700	35 X 30	1.87	60	30
	HP31K682MRZ	6,800	30 X 50	2.56	45	33
	HP31K682MRA	6,800	35 X 40	2.47	45	33
100 Volts (Code: 2A)	HP32A102MRX	1,000	22 X 30	0.94	215	15
	HP32A102MRY	1,000	25 X 25	0.93	215	15
	HP22A152MRX	1,500	22 X 35	1.22	145	20
	HP22A152MRY	1,500	25 X 30	1.22	145	20
	HP32A152MRZ	1,500	30 X 25	1.22	145	20
	HP32A222MRX	2,200	22 X 50	1.47	100	25
	HP32A222MRY	2,200	25 X 40	1.41	100	25
	HP32A222MRZ	2,200	30 X 30	1.35	100	25
	HP32A222MRA	2,200	35 X 25	1.35	100	25
	HP32A332MRY	3,300	25 X 50	1.88	65	30
	HP32A332MRZ	3,300	30 X 40	1.83	65	30
	HP32A332MRA	3,300	35 X 30	1.75	65	30
	HP32A472MRZ	4,700	30 X 50	2.12	45	33
	HP32A472MRA	4,700	35 X 40	2.05	45	33
	HP32A682MRA	6,800	35 X 50	2.68	35	36
160 Volts (Code: 2C)	HP32C391MRX	390	22 X 25	1.50	365	6
	HP32C471MRX	470	22 X 30	1.76	305	6
	HP32C471MRY	470	25 X 25	1.74	305	6
	HP32C561MRX	560	22 X 35	2.03	255	7
	HP32C561MRY	560	25 X 30	2.02	255	7
	HP32C681MRX	680	22 X 40	2.36	210	7
	HP32C681MRY	680	25 X 30	2.24	210	7
	HP32C681MRZ	680	30 X 25	2.24	210	7
	HP32C821MRX	820	22 X 45	2.72	175	8
	HP32C821MRY	820	25 X 35	2.61	175	8
	HP32C821MRZ	820	30 X 30	2.61	175	8
	HP32C102MRX	1,000	22 X 50	3.13	145	8
	HP32C102MRY	1,000	25 X 40	3.00	145	8
	HP32C102MRZ	1,000	30 X 30	2.88	145	8
	HP32C102MRA	1,000	35 X 25	2.88	145	8
	HP32C122MRY	1,200	25 X 45	3.44	120	9
	HP32C122MRZ	1,200	30 X 35	3.34	120	9
	HP32C122MRA	1,200	35 X 30	3.34	120	9
	HP32C152MRZ	1,500	30 X 40	3.91	95	10
	HP32C152MRA	1,500	35 X 36	3.96	95	10
HP32C182MRZ	1,800	30 X 45	4.47	80	11	
HP32C182MRA	1,800	35 X 36	4.34	80	11	

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180 Volts (Code: 2P)	HP32P331MRX	330	22 X 25	1.38	375	10
	HP32P391MRX	390	22 X 30	1.60	320	9
	HP32P391MRY	390	25 X 25	1.58	320	9
	HP32P471MRX	470	22 X 30	1.76	265	8
	HP32P471MRY	470	25 X 25	1.74	265	8
	HP32P561MRX	560	22 X 35	2.03	225	7
	HP32P561MRY	560	25 X 30	2.03	225	7
	HP32P561MRZ	560	30 X 25	2.03	225	7
	HP32P681MRX	680	22 X 40	2.36	185	7
	HP32P681MRY	680	25 X 35	2.35	185	7
	HP32P681MRZ	680	30 X 25	2.24	185	7
	HP32P821MRX	820	22 X 45	2.72	155	6
	HP32P821MRY	820	25 X 40	2.72	155	6
	HP32P821MRZ	820	30 X 30	2.61	155	6
	HP32P821MRA	820	35 X 25	2.61	155	6
	HP32P102MRY	1,000	25 X 45	3.14	125	5
	HP32P102MRZ	1,000	30 X 35	3.04	125	5
	HP32P102MRA	1,000	35 X 25	2.88	125	5
	HP32P122MRY	1,200	25 X 50	3.59	105	5
	HP32P122MRZ	1,200	30 X 40	3.49	105	5
	HP32P122MRA	1,200	35 X 30	3.34	105	5
	HP32P152MRZ	1,500	30 X 45	4.08	85	4
HP32P152MRA	1,500	35 X 35	3.96	85	4	
HP32P182MRA	1,800	35 X 40	4.50	70	4	
HP32P182MSB	1,800	40 X 36	4.56	70	4	
200 Volts (Code: 2D)	HP32D221MRX	220	22 X 25	1.36	485	5
	HP32D271MRX	270	22 X 25	1.50	395	6
	HP32D331MRX	330	22 X 30	1.76	325	7
	HP32D331MRY	330	25 X 25	1.75	325	7
	HP32D391MRX	390	22 X 30	1.92	275	7
	HP32D391MRY	390	25 X 25	1.90	275	7
	HP32D471MRX	470	22 X 35	2.23	230	9
	HP32D471MRY	470	25 X 30	2.23	230	9
	HP32D471MRZ	470	30 X 25	2.23	230	9
	HP32D561MRX	560	22 X 40	2.57	190	9
	HP32D561MRY	560	25 X 35	2.57	190	9
	HP32D561MRZ	560	30 X 25	2.44	190	9
	HP32D681MRX	680	22 X 45	2.98	160	11
	HP32D681MRY	680	25 X 35	2.86	160	11
	HP32D681MRZ	680	30 X 30	2.86	160	11
	HP32D681MRA	680	35 X 25	2.86	160	11
	HP32D821MRY	820	25 X 40	3.26	130	11
	HP32D821MRZ	820	30 X 30	3.13	130	11
	HP32D821MRA	820	35 X 25	3.13	130	11
	HP32D102MRY	1,000	25 X 50	3.92	110	13
	HP32D102MRZ	1,000	30 X 35	3.64	110	13
	HP32D102MRA	1,000	35 X 30	3.66	110	13
	HP32D122MRZ	1,200	30 X 40	4.19	90	14
	HP32D122MRA	1,200	35 X 35	4.25	90	14
	HP32D152MRA	1,500	35 X 40	4.93	75	14
	HP32D152MSB	1,500	40 X 36	4.99	75	14
HP32D182MRA	1,800	35 X 50	5.84	60	15	
HP32D182MSB	1,800	40 X 41	5.66	60	15	

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<b>250 Volts (Code: 2E)</b>	HP32E221MRX	220	22 X 25	1.36	485	5
	HP32E271MRX	270	22 X 30	1.60	395	6
	HP32E271MRY	270	25 X 25	1.58	395	6
	HP32E331MRX	330	22 X 35	1.87	325	7
	HP32E331MRY	330	25 X 30	1.86	325	7
	HP32E391MRX	390	22 X 35	2.04	275	8
	HP32E391MRY	390	25 X 30	2.04	275	8
	HP32E391MRZ	390	30 X 25	2.04	275	8
	HP32E471MRX	470	22 X 40	2.35	230	8
	HP32E471MRY	470	25 X 35	2.35	230	8
	HP32E471MRZ	470	30 X 25	2.24	230	8
	HP32E471MRA	470	35 X 25	2.38	230	8
	HP32E561MRX	560	22 X 50	2.81	190	9
	HP32E561MRY	560	25 X 40	2.69	190	9
	HP32E561MRZ	560	30 X 30	2.59	190	9
	HP32E561MRA	560	35 X 25	2.59	190	9
	HP32E681MRY	680	25 X 45	3.11	160	9
	HP32E681MRZ	680	30 X 35	3.01	160	9
	HP32E681MRA	680	35 X 30	3.01	160	9
	HP32E821MRY	820	25 X 50	3.55	130	10
	HP32E821MRZ	820	30 X 40	3.47	130	10
	HP32E821MRA	820	35 X 30	3.31	130	10
	HP32E102MRZ	1,000	30 X 45	4.00	110	11
	HP32E102MRA	1,000	35 X 35	3.88	110	11
	HP32E122MRZ	1,200	30 X 50	4.55	90	11
	HP32E122MRA	1,200	35 X 40	4.40	90	11
	HP32E122MSB	1,200	40 X 36	4.46	75	12
	HP32E152MSA	1,500	35 X 50	5.34	75	12
HP32E152MSB	1,500	40 X 41	5.29	60	13	
HP32E182MSB	1,800	40 X 51	6.11	60	13	
<b>350 Volts (Code: 2V)</b>	HP32V101MRX	100	22 X 25	0.76	1065	3
	HP32V121MRX	120	22 X 30	0.89	885	3
	HP32V121MRY	120	25 X 25	0.88	885	3
	HP32V151MRX	150	22 X 30	0.99	710	4
	HP32V151MRY	150	25 X 25	0.98	710	4
	HP32V181MRX	180	22 X 35	1.15	590	4
	HP32V181MRY	180	25 X 30	1.15	590	4
	HP32V181MRZ	180	30 X 25	1.15	590	4
	HP32V221MRX	220	22 X 40	1.34	485	5
	HP32V221MRY	220	25 X 35	1.34	485	5
	HP32V221MRZ	220	30 X 25	1.28	485	5
	HP32V271MRX	270	22 X 50	1.63	395	5
	HP32V271MRY	270	25 X 40	1.56	395	5
	HP32V271MRZ	270	30 X 30	1.50	395	5
	HP32V271MRA	270	35 X 25	1.50	395	5
	HP32V331MRY	330	25 X 45	1.80	325	6
	HP32V331MRZ	330	30 X 35	1.75	325	6
	HP32V331MRA	330	35 X 30	1.75	325	6
	HP32V391MRY	390	25 X 50	2.04	275	6
	HP32V391MRZ	390	30 X 40	1.99	275	6
	HP32V391MRA	390	35 X 30	1.90	275	6
	HP32V471MRZ	470	30 X 40	2.19	230	7
	HP32V471MRA	470	35 X 35	2.22	230	7
	HP32V561MRZ	560	30 X 50	2.59	190	7
	HP32V561MRA	560	35 X 40	2.54	190	7
	HP32V561MSB	560	40 X 36	2.54	190	7
	HP32V681MRA	680	35 X 45	2.88	160	9
	HP32V681MSB	680	40 X 41	2.90	160	9

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400 Volts (Code: 2G)	HP32G101MRWS2	100	20 X 25	0.89	1065	3
	HP32G121MRWS3	120	20 X 30	1.04	885	3
	HP32G121MRXS2	120	22 X 25	1.00	885	3
	HP32G121MRYS	120	25 X 25	1.06	885	3
	HP32G151MRWS4	150	20 X 35	1.24	710	4
	HP32G151MRXS3	150	22 X 30	1.20	710	4
	HP32G151MRYS2	150	25 X 25	1.18	710	4
	HP32G181MRXS4	180	22 X 35	1.38	590	4
	HP32G181MRYS3	180	25 X 30	1.38	590	4
	HP32G181MRZ	180	30 X 25	1.38	590	4
	HP32G221MRXS5	220	22 X 40	1.62	485	5
	HP32G221MRYS3	220	25 X 30	1.52	485	5
	HP32G221MRZS2	220	30 X 25	1.52	485	5
	HP32G271MRXS6	270	22 X 45	1.88	395	5
	HP32G271MRYS4	270	25 X 35	1.78	395	5
	HP32G271MRZS3	270	30 X 30	1.79	395	5
	HP32G271MRAS2	270	35 X 25	1.79	395	5
	HP32G331MRXS7	330	22 X 50	2.17	325	6
	HP32G331MRYS5	330	25 X 40	2.07	325	6
	HP32G331MRZS4	330	30 X 35	2.08	325	6
	HP32G331MRA	330	35 X 30	2.10	325	6
	HP32G391MRYS6	390	25 X 45	2.36	275	6
	HP32G391MRZS4	390	30 X 35	2.27	275	6
	HP32G391MRAS3	390	35 X 30	2.28	275	6
	HP32G471MRZS5	470	30 X 40	2.61	230	7
	HP32G471MRAS4	470	35 X 35	2.63	230	7
	HP32G561MRZS6	560	30 X 45	2.98	190	8
	HP32G561MRAS5	560	35 X 40	3.01	190	8
HP32G681MSAS6	680	35 X 45	3.45	160	10	
420 Volts (Code: 420V)	HP3420V680MRWS2	68	20 X 25	0.73	1620	3
	HP3420V820MRWS2	82	20 X 25	0.81	1340	3
	HP3420V101MRWS3	100	20 X 30	0.95	1100	3
	HP3420V101MRXS2	100	22 X 25	0.92	1100	3
	HP3420V121MRWS4	120	20 X 35	1.11	915	4
	HP3420V121MRXS3	120	22 X 30	1.07	915	4
	HP3420V151MRXS4	150	22 X 35	1.26	735	5
	HP3420V151MRYS2	150	25 X 25	1.18	735	5
	HP3420V181MRXS4	180	22 X 35	1.39	610	5
	HP3420V181MRYS3	180	25 X 30	1.38	610	5
	HP3420V181MRZS2	180	30 X 25	1.38	610	5
	HP3420V221MRXS5	220	22 X 40	1.62	500	5
	HP3420V221MRYS4	220	25 X 35	1.61	500	5
	HP3420V221MRZS3	220	30 X 30	1.62	500	5
	HP3420V271MRXS7	270	22 X 50	1.96	410	10
	HP3420V271MRYS5	270	25 X 40	1.87	410	10
	HP3420V271MRZS3	270	30 X 30	1.79	410	10
	HP3420V271MRAS2	270	35 X 25	1.79	410	10
	HP3420V331MRYS6	330	25 X 45	2.17	335	10
	HP3420V331MRZS4	330	30 X 35	2.08	335	10
	HP3420V331MRAS3	330	35 X 30	2.10	335	10
	HP3420V391MRYS7	390	25 X 50	2.46	285	12
	HP3420V391MRZS5	390	30 X 40	2.38	285	12
	HP3420V391MRAS4	390	35 X 35	2.40	285	12
	HP3420V471MRZS6	470	30 X 45	2.73	235	14
	HP3420V471MRAS5	470	35 X 40	2.75	235	14
	HP3420V561MRZS7	560	30 X 50	3.10	200	16
	HP3420V561MRAS5	560	35 X 40	3.01	200	16
HP3420V681MRAS7	680	35 X 50	3.59	165	17	

# ALUMINUM ELECTROLYTIC CAPACITORS

## HP3 Series

•Life rating to 2,000 hours at 85°C

•Temperature range -40°C to +85°C

Rated Voltage (WVDC)	Part Number	Capacitance	Case Size ØD x L (mm)	Maximum Ripple Current (A rms) @85° C, 120Hz	Typical ESR (mΩ) @20° C, 120Hz	Typical ESL (nH)
450 Volts (Code: 2W)	HP32W680MRWS2	68	20 X 25	0.73	1620	3
	HP32W820MRWS3	82	20 X 30	0.86	1340	3
	HP32W820MRXS2	82	22 X 25	0.83	1340	3
	HP32W101MRWS3	100	20 X 30	0.95	1100	3
	HP32W101MRXS3	100	22 X 30	0.98	1100	3
	HP32W101MRYS2	100	25 X 25	0.96	1100	3
	HP32W121MRWS4	120	20 X 35	1.11	915	4
	HP32W121MRXS3	120	22 X 30	1.07	915	4
	HP32W121MRYS2	120	25 X 25	1.06	915	4
	HP32W151MRXS4	150	22 X 35	1.26	735	5
	HP32W151MRYS3	150	25 X 30	1.26	735	5
	HP32W151MRZS2	150	30 X 25	1.26	735	5
	HP32W181MRXS5	180	22 X 40	1.46	610	5
	HP32W181MRYS4	180	25 X 35	1.46	610	5
	HP32W181MRZS2	180	30 X 25	1.38	610	5
	HP32W221MRXS6	220	22 X 45	1.70	500	5
	HP32W221MRYS4	220	25 X 35	1.61	500	5
	HP32W221MRZS3	220	30 X 30	1.62	500	5
	HP32W221MRAS2	220	35 X 25	1.62	500	5
	HP32W271MRYS6	270	25 X 45	1.96	410	10
	HP32W271MRZS4	270	30 X 35	1.90	410	10
	HP32W271MRAS3	270	35 X 30	1.90	410	10
	HP32W331MRYS7	330	25 X 50	2.26	335	10
	HP32W331MRZS5	330	30 X 40	2.19	335	10
	HP32W331MRA	330	35 X 35	2.23	335	10
	HP32W391MRZS6	390	30 X 45	2.48	285	12
	HP32W391MRAS4	390	35 X 35	2.40	285	12
	HP32W471MRZS7	470	30 X 50	2.84	235	14
HP32W471MRAS5	470	35 X 40	2.75	235	14	
HP32W561MRAS6	560	35 X 45	3.13	200	16	

For nonstandard products contact Hitachi AIC.