

LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Downsized snap-ins, 105°C

R Series

1. Increase in height from current snap-ins KMQ series
 2. Higher ripple current than same case size of KMQ series
 3. Longer life: 2,000 hours at 105°C
 4. Voltage range: 160 to 450V_{dc}, Capacitance range: 100 to 3,300μF
 5. Suitable for switching power supplies
 6. Instant type
 7. Instant

KMR

↓
Downsized

KMQ

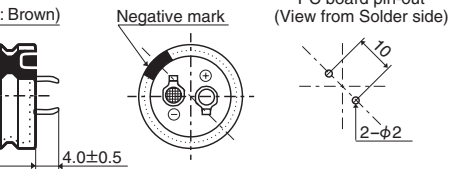


CHARACTERISTICS

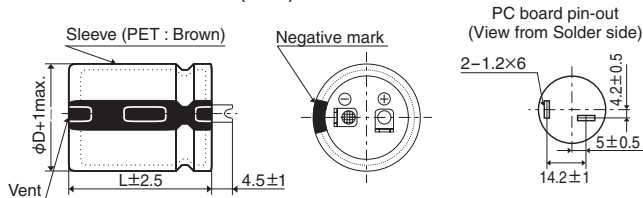
Characteristics	
Temperature range	-25 to +105°C
Voltage range	160 to 450V _{dc}
Capacitance tolerance	±20% (M) (at 20°C, 120Hz)
Leakage current	$I \leq 3\sqrt{CV}$ Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)
Rated voltage (V _{dc})	160 to 250V 315 to 400V 420 & 450V
tan δ (Max.)	0.15 0.15 0.20 (at 20°C, 120Hz)
Rated voltage (V _{dc})	160 to 250V 315 to 400V 420 & 450V
Z(-25°C)/Z(+20°C)	4 8 8 (at 120Hz)
Notes	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 2,000 hours at 105°C.
Capacitance change	≤ ±20% of the initial value
D.F. (tan δ)	≤ 200% of the initial specified value
Leakage current	≤ The initial specified value
Notes	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.
Capacitance change	≤ ±15% of the initial value
D.F. (tan δ)	≤ 150% of the initial specified value
Leakage current	≤ The initial specified value

TERMINAL CODE [mm]

Terminal Code : VS (φ22 to φ35) : Standard

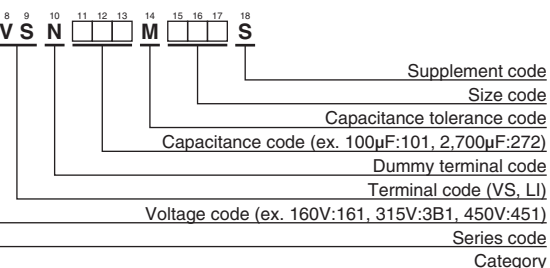


Terminal Code : LI (φ35)



This design has no plastic disc.

TERMINAL SYSTEM



Product code guide (snap-in type)"

LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Downsized snap-ins, 105°C

Series

OPERATING RATINGS

Case size φD×L(mm)	Rated ripple current (Arms/105°C,120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	Rated ripple current (Arms/105°C,120Hz)	Part No.	
22 × 25	1.58	EKMR161VSN561MP25S	250	330	22 × 25	1.21	EKMR251VSN331MP25S	
22 × 30	1.83	EKMR161VSN681MP30S		390	22 × 30	1.38	EKMR251VSN391MP30S	
22 × 35	2.06	EKMR161VSN821MP35S		470	22 × 35	1.56	EKMR251VSN471MP35S	
24 × 25	1.89	EKMR161VSN821MQ25S		560	22 × 40	1.74	EKMR251VSN561MP40S	
22 × 40	2.33	EKMR161VSN102MP40S		560	25.4 × 30	1.61	EKMR251VSN561MQ30S	
24 × 30	2.15	EKMR161VSN102MQ30S		560	30 × 25	1.42	EKMR251VSN561MR25S	
30 × 25	1.90	EKMR161VSN102MR25S		680	22 × 45	1.97	EKMR251VSN681MP45S	
22 × 45	2.61	EKMR161VSN122MP45S		680	25.4 × 35	1.85	EKMR251VSN681MQ35S	
22 × 50	2.69	EKMR161VSN122MP50S		820	25.4 × 40	2.08	EKMR251VSN821MQ40S	
24 × 35	2.45	EKMR161VSN122MQ35S		820	25.4 × 45	2.13	EKMR251VSN821MQ45S	
24 × 40	2.82	EKMR161VSN152MQ40S		820	30 × 30	1.77	EKMR251VSN821MR30S	
24 × 45	2.88	EKMR161VSN152MQ45S		820	35 × 25	1.60	EKMR251VSN821MA25S	
30 × 30	2.39	EKMR161VSN152MR30S		1,000	25.4 × 50	2.40	EKMR251VSN102MQ50S	
35 × 25	2.17	EKMR161VSN152MA25S		1,000	30 × 35	2.03	EKMR251VSN102MR35S	
24 × 50	3.22	EKMR161VSN182MQ50S		1,200	30 × 40	2.31	EKMR251VSN122MR40S	
30 × 35	2.73	EKMR161VSN182MR35S		1,200	30 × 45	2.38	EKMR251VSN122MR45S	
30 × 40	2.82	EKMR161VSN182MR40S		1,200	35 × 35	2.06	EKMR251VSN122MA35S	
35 × 30	2.47	EKMR161VSN182MA30S		1,500	30 × 50	2.73	EKMR251VSN152MR50S	
30 × 45	3.23	EKMR161VSN222MR45S		1,500	35 × 40	2.41	EKMR251VSN152MA40S	
35 × 35	2.79	EKMR161VSN222MA35S		1,800	35 × 45	2.72	EKMR251VSN182MA45S	
30 × 50	3.66	EKMR161VSN272MR50S		2,200	35 × 50	3.10	EKMR251VSN222MA50S	
35 × 40	3.23	EKMR161VSN272MA40S		315	180	22 × 25	0.91	EKMR3B1VSN181MP25S
35 × 45	3.68	EKMR161VSN332MA45S			220	22 × 30	1.06	EKMR3B1VSN221MP30S
22 × 25	1.45	EKMR181VSN471MP25S			270	22 × 35	1.20	EKMR3B1VSN271MP35S
22 × 30	1.66	EKMR181VSN561MP30S			270	25.4 × 25	1.15	EKMR3B1VSN271MQ25S
22 × 35	1.87	EKMR181VSN681MP35S			330	22 × 40	1.37	EKMR3B1VSN331MP40S
24 × 25	1.72	EKMR181VSN681MQ25S			330	25.4 × 30	1.30	EKMR3B1VSN331MQ30S
22 × 40	2.11	EKMR181VSN821MP40S			390	22 × 45	1.52	EKMR3B1VSN391MP45S
24 × 30	1.94	EKMR181VSN821MQ30S			390	25.4 × 35	1.48	EKMR3B1VSN391MQ35S
22 × 45	2.38	EKMR181VSN102MP45S			390	30 × 25	1.39	EKMR3B1VSN391MR25S
24 × 35	2.24	EKMR181VSN102MQ35S			470	22 × 50	1.72	EKMR3B1VSN471MP50S
30 × 25	1.90	EKMR181VSN102MR25S			470	25.4 × 40	1.67	EKMR3B1VSN471MQ40S
22 × 50	2.69	EKMR181VSN122MP50S			470	30 × 30	1.57	EKMR3B1VSN471MR30S
24 × 40	2.52	EKMR181VSN122MQ40S	470		35 × 25	1.52	EKMR3B1VSN471MA25S	
30 × 30	2.14	EKMR181VSN122MR30S	560		25.4 × 45	1.86	EKMR3B1VSN561MQ45S	
35 × 25	1.94	EKMR181VSN122MA25S	560		30 × 35	1.78	EKMR3B1VSN561MR35S	
24 × 45	2.88	EKMR181VSN152MQ45S	680		25.4 × 50	2.10	EKMR3B1VSN681MQ50S	
24 × 50	2.94	EKMR181VSN152MQ50S	680		30 × 40	2.03	EKMR3B1VSN681MR40S	
30 × 35	2.49	EKMR181VSN152MR35S	680		35 × 30	1.90	EKMR3B1VSN681MA30S	
30 × 40	2.82	EKMR181VSN182MR40S	820		30 × 45	2.31	EKMR3B1VSN821MR45S	
35 × 30	2.47	EKMR181VSN182MA30S	820		35 × 35	2.13	EKMR3B1VSN821MA35S	
30 × 45	3.23	EKMR181VSN222MR45S	1,000		30 × 50	2.61	EKMR3B1VSN102MR50S	
30 × 50	3.31	EKMR181VSN222MR50S	1,000		35 × 40	2.46	EKMR3B1VSN102MA40S	
35 × 35	2.79	EKMR181VSN222MA35S	1,200		35 × 45	2.78	EKMR3B1VSN122MA45S	
35 × 40	2.92	EKMR181VSN222MA40S	1,200		35 × 50	2.86	EKMR3B1VSN122MA50S	
35 × 45	3.33	EKMR181VSN272MA45S	350		150	22 × 25	0.84	EKMR351VSN151MP25S
22 × 30	1.66	EKMR201VSN561MP30S			220	22 × 30	1.06	EKMR351VSN221MP30S
24 × 25	1.56	EKMR201VSN561MQ25S			220	25.4 × 25	1.04	EKMR351VSN221MQ25S
22 × 35	1.87	EKMR201VSN681MP35S			270	22 × 35	1.20	EKMR351VSN271MP35S
24 × 30	1.77	EKMR201VSN681MQ30S			270	25.4 × 30	1.18	EKMR351VSN271MQ30S
22 × 40	2.11	EKMR201VSN821MP40S			330	22 × 40	1.37	EKMR351VSN331MP40S
24 × 35	2.03	EKMR201VSN821MQ35S			330	22 × 45	1.40	EKMR351VSN331MP45S
30 × 25	1.72	EKMR201VSN821MR25S			330	25.4 × 35	1.36	EKMR351VSN331MQ35S
22 × 50	2.45	EKMR201VSN102MP50S			330	30 × 25	1.28	EKMR351VSN331MR25S
24 × 40	2.30	EKMR201VSN102MQ40S		390	22 × 50	1.56	EKMR351VSN391MP50S	
30 × 30	1.95	EKMR201VSN102MR30S		390	25.4 × 40	1.52	EKMR351VSN391MQ40S	
24 × 45	2.58	EKMR201VSN122MQ45S		390	30 × 30	1.43	EKMR351VSN391MR30S	
30 × 35	2.23	EKMR201VSN122MR35S		390	35 × 25	1.38	EKMR351VSN391MA25S	
35 × 25	1.94	EKMR201VSN122MA25S		470	25.4 × 45	1.71	EKMR351VSN471MQ45S	
24 × 50	2.94	EKMR201VSN152MQ50S		560	25.4 × 50	1.90	EKMR351VSN561MQ50S	
30 × 40	2.58	EKMR201VSN152MR40S		560	30 × 35	1.78	EKMR351VSN561MR35S	
35 × 30	2.25	EKMR201VSN152MA30S		560	30 × 40	1.84	EKMR351VSN561MR40S	
30 × 45	2.92	EKMR201VSN182MR45S		560	35 × 30	1.72	EKMR351VSN561MA30S	
35 × 35	2.53	EKMR201VSN182MA35S		680	30 × 45	2.10	EKMR351VSN681MR45S	

Snap-in

LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Downsized snap-ins, 105°C

Series

RATINGS

Case size φD×L(mm)	Rated ripple current (Arms/105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	Rated ripple current (Arms/105°C, 120Hz)	Part No.	
35 × 40	2.23	EKMR351VSN821MA40S	420	270	25.4 × 40	1.32	EKMR421VSN271MQ40S	
35 × 45	2.54	EKMR351VSN102MA45S		270	30 × 30	1.26	EKMR421VSN271MR30S	
35 × 50	2.86	EKMR351VSN122MA50S		270	35 × 25	1.26	EKMR421VSN271MA25S	
22 × 25	0.75	EKMR401VSN121MP25S		330	25.4 × 45	1.49	EKMR421VSN331MQ45S	
22 × 30	0.96	EKMR401VSN181MP30S		330	30 × 35	1.45	EKMR421VSN331MR35S	
24 × 25	0.94	EKMR401VSN181MQ25S		390	25.4 × 50	1.66	EKMR421VSN391MQ50S	
22 × 35	1.09	EKMR401VSN221MP35S		390	30 × 40	1.63	EKMR421VSN391MR40S	
24 × 30	1.07	EKMR401VSN221MQ30S		390	35 × 30	1.58	EKMR421VSN391MA30S	
22 × 40	1.24	EKMR401VSN271MP40S		470	30 × 45	1.85	EKMR421VSN471MR45S	
22 × 45	1.26	EKMR401VSN271MP45S		470	35 × 35	1.77	EKMR421VSN471MA35S	
24 × 35	1.23	EKMR401VSN271MQ35S		560	30 × 50	2.07	EKMR421VSN561MR50S	
30 × 25	1.16	EKMR401VSN271MR25S		560	35 × 40	2.02	EKMR421VSN561MA40S	
22 × 50	1.44	EKMR401VSN331MP50S		680	35 × 45	2.29	EKMR421VSN681MA45S	
24 × 40	1.40	EKMR401VSN331MQ40S		820	35 × 50	2.59	EKMR421VSN821MA50S	
30 × 30	1.31	EKMR401VSN331MR30S		450	100	22 × 25	0.71	EKMR451VSN101MP25S
35 × 25	1.27	EKMR401VSN331MA25S			120	22 × 30	0.82	EKMR451VSN121MP30S
24 × 45	1.55	EKMR401VSN391MQ45S			150	22 × 35	0.94	EKMR451VSN151MP35S
30 × 35	1.49	EKMR401VSN391MR35S	150		25.4 × 25	0.89	EKMR451VSN151MQ25S	
24 × 50	1.74	EKMR401VSN471MQ50S	180		22 × 40	1.05	EKMR451VSN181MP40S	
30 × 40	1.69	EKMR401VSN471MR40S	180		25.4 × 30	1.00	EKMR451VSN181MQ30S	
35 × 30	1.58	EKMR401VSN471MA30S	220		22 × 45	1.19	EKMR451VSN221MP45S	
30 × 45	1.91	EKMR401VSN561MR45S	220		25.4 × 35	1.16	EKMR451VSN221MQ35S	
35 × 35	1.76	EKMR401VSN561MA35S	220		30 × 25	1.11	EKMR451VSN221MR25S	
30 × 50	2.15	EKMR401VSN681MR50S	270		22 × 50	1.36	EKMR451VSN271MP50S	
35 × 40	2.03	EKMR401VSN681MA40S	270		25.4 × 40	1.32	EKMR451VSN271MQ40S	
35 × 45	2.30	EKMR401VSN821MA45S	270		25.4 × 45	1.35	EKMR451VSN271MQ45S	
35 × 50	2.37	EKMR401VSN821MA50S	270		30 × 30	1.26	EKMR451VSN271MR30S	
35 × 50	2.50	EKMR401VSN102MA50S	270		35 × 25	1.26	EKMR451VSN271MA25S	
22 × 25	0.78	EKMR421VSN121MP25S	330		25.4 × 50	1.52	EKMR451VSN331MQ50S	
22 × 30	0.91	EKMR421VSN151MP30S	330		30 × 35	1.45	EKMR451VSN331MR35S	
24 × 25	0.89	EKMR421VSN151MQ25S	330		35 × 30	1.45	EKMR451VSN331MA30S	
22 × 35	1.03	EKMR421VSN181MP35S	390	30 × 40	1.63	EKMR451VSN391MR40S		
24 × 30	1.00	EKMR421VSN181MQ30S	470	30 × 45	1.85	EKMR451VSN471MR45S		
22 × 40	1.16	EKMR421VSN221MP40S	470	30 × 50	1.90	EKMR451VSN471MR50S		
22 × 45	1.19	EKMR421VSN221MP45S	470	35 × 35	1.77	EKMR451VSN471MA35S		
24 × 35	1.16	EKMR421VSN221MQ35S	560	35 × 40	2.02	EKMR451VSN561MA40S		
30 × 25	1.11	EKMR421VSN221MR25S	560	35 × 45	2.08	EKMR451VSN561MA45S		
22 × 50	1.36	EKMR421VSN271MP50S	680	35 × 50	2.36	EKMR451VSN681MA50S		

RIPPLE CURRENT MULTIPLIERS

Multipliers

50	120	300	1k	10k	50k
0.81	1.00	1.17	1.32	1.45	1.50
0.77	1.00	1.16	1.30	1.41	1.43

Capacitor performance is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. In actual use, the rms ripple current has to be reduced.

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