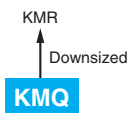


LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Standard snap-ins, 105°C



ripple current : 2,000 hours at 105°C
 instant type
 ant

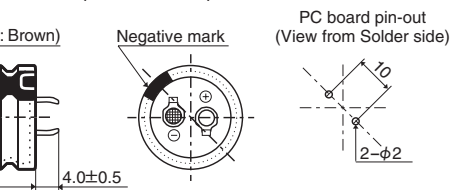


CONDITIONS

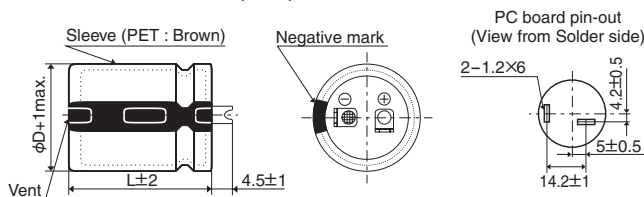
Characteristics	
Temperature range	-40 to +105°C (35&50V _{dc}), -25 to +105°C (160 to 450V _{dc})
Voltage range	35&50V _{dc} , 160 to 450V _{dc}
Capacitance tolerance	±20% (M) (at 20°C, 120Hz)
Leakage current	$I \leq 3\sqrt{CV}$ Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)
Rated voltage (V _{dc})	35V, 50V, 160 to 250V, 315 to 400V, 420 & 450V
Nominal capacitance (μF)	10,000>C, C≥10,000, 10,000>C, C≥10,000, —, —, —
tan δ (Max.)	0.30, 0.35, 0.25, 0.30, 0.15, 0.15, 0.20 (at 20°C, 120Hz)
Temperature stability	Rated voltage (V _{dc}): 35&50V, 160 to 250V, 315 to 450V Z(-25°C)/Z(+20°C): 4, 4, 8 Z(-40°C)/Z(+20°C): 10, —, — (at 120Hz)
Recovery characteristics	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
Recovery characteristics	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

SIZE [mm]

Terminal code : VS (φ22 to φ35) : Standard

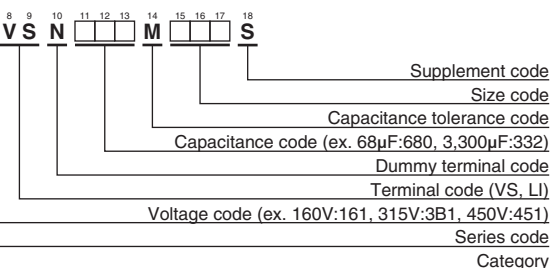


Terminal Code : LI (φ35)



This design has no plastic disc.

TERMINAL SYSTEM



Product code guide (snap-in type)^{a)}



LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Standard snap-ins, 105°C

Series

RATINGS

Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	
22 × 25	0.30	1.87	EKMQ350VSN472MP25S	160	1,800	30 × 40	0.15	2.70	EKMQ161VSN182MR40S	
22 × 25	0.30	2.04	EKMQ350VSN562MP25S		1,800	35 × 30	0.15	2.70	EKMQ161VSN182MA30S	
24 × 25	0.30	2.00	EKMQ350VSN562MQ25S		2,200	30 × 45	0.15	2.90	EKMQ161VSN222MR45S	
22 × 30	0.30	2.36	EKMQ350VSN682MP30S		2,200	35 × 35	0.15	2.90	EKMQ161VSN222MA35S	
24 × 25	0.30	2.21	EKMQ350VSN682MQ25S		2,700	30 × 50	0.15	3.10	EKMQ161VSN272MR50S	
22 × 35	0.30	2.65	EKMQ350VSN822MP35S		2,700	35 × 40	0.15	3.10	EKMQ161VSN272MA40S	
24 × 30	0.30	2.49	EKMQ350VSN822MQ30S		3,300	35 × 50	0.15	3.30	EKMQ161VSN332MA50S	
30 × 25	0.30	2.62	EKMQ350VSN822MR25S		180	390	22 × 25	0.15	1.30	EKMQ181VSN391MP25S
22 × 40	0.35	3.00	EKMQ350VSN103MP40S			470	22 × 30	0.15	1.40	EKMQ181VSN471MP30S
24 × 35	0.35	2.88	EKMQ350VSN103MQ35S			560	22 × 30	0.15	1.50	EKMQ181VSN561MP30S
30 × 25	0.35	2.90	EKMQ350VSN103MR25S	560		25.4 × 25	0.15	1.50	EKMQ181VSN561MQ25S	
22 × 50	0.35	3.47	EKMQ350VSN123MP50S	680		22 × 35	0.15	1.70	EKMQ181VSN681MP35S	
24 × 35	0.35	3.15	EKMQ350VSN123MQ35S	680		25.4 × 30	0.15	1.70	EKMQ181VSN681MQ30S	
30 × 30	0.35	3.25	EKMQ350VSN123MR30S	820		22 × 40	0.15	2.00	EKMQ181VSN821MP40S	
35 × 25	0.35	3.20	EKMQ350VSN123MA25S	820		25.4 × 30	0.15	2.00	EKMQ181VSN821MQ30S	
24 × 40	0.35	3.61	EKMQ350VSN153MQ40S	820		30 × 25	0.15	2.00	EKMQ181VSN821MR25S	
30 × 35	0.35	3.78	EKMQ350VSN153MR35S	1,000		22 × 45	0.15	2.20	EKMQ181VSN102MP45S	
35 × 25	0.35	3.60	EKMQ350VSN153MA25S	1,000	25.4 × 40	0.15	2.20	EKMQ181VSN102MQ40S		
24 × 50	0.35	4.14	EKMQ350VSN183MQ50S	200	1,000	30 × 30	0.15	2.20	EKMQ181VSN102MR30S	
30 × 40	0.35	4.30	EKMQ350VSN183MR40S		1,000	35 × 25	0.15	2.20	EKMQ181VSN102MA25S	
35 × 30	0.35	4.10	EKMQ350VSN183MA30S		1,200	25.4 × 45	0.15	2.30	EKMQ181VSN122MQ45S	
30 × 50	0.35	5.00	EKMQ350VSN223MR50S		1,200	30 × 35	0.15	2.30	EKMQ181VSN122MR35S	
35 × 35	0.35	4.64	EKMQ350VSN223MA35S		1,200	35 × 30	0.15	2.30	EKMQ181VSN122MA30S	
35 × 40	0.35	5.37	EKMQ350VSN273MA40S		1,500	25.4 × 50	0.15	2.50	EKMQ181VSN152MQ50S	
35 × 50	0.35	6.00	EKMQ350VSN333MA50S		1,500	30 × 40	0.15	2.50	EKMQ181VSN152MR40S	
22 × 25	0.25	1.65	EKMQ500VSN272MP25S		1,500	35 × 30	0.15	2.50	EKMQ181VSN152MA30S	
22 × 30	0.25	1.92	EKMQ500VSN332MP30S		1,800	30 × 45	0.15	2.70	EKMQ181VSN182MR45S	
24 × 25	0.25	1.76	EKMQ500VSN332MQ25S		1,800	35 × 35	0.15	2.70	EKMQ181VSN182MA35S	
22 × 30	0.25	2.08	EKMQ500VSN392MP30S	250	2,200	30 × 50	0.15	2.90	EKMQ181VSN222MR50S	
24 × 25	0.25	2.04	EKMQ500VSN392MQ25S		2,200	35 × 40	0.15	2.90	EKMQ181VSN222MA40S	
22 × 35	0.25	2.43	EKMQ500VSN472MP35S		2,700	35 × 50	0.15	3.10	EKMQ181VSN272MA50S	
24 × 30	0.25	2.50	EKMQ500VSN472MQ30S		300	390	22 × 25	0.15	1.31	EKMQ201VSN391MP25S
30 × 25	0.25	2.29	EKMQ500VSN472MR25S			470	22 × 30	0.15	1.45	EKMQ201VSN471MP30S
22 × 40	0.25	2.63	EKMQ500VSN562MP40S			560	22 × 30	0.15	1.67	EKMQ201VSN561MP30S
24 × 35	0.25	2.61	EKMQ500VSN562MQ35S			560	25.4 × 25	0.15	1.67	EKMQ201VSN561MQ25S
30 × 25	0.25	2.80	EKMQ500VSN562MR25S			680	22 × 40	0.15	1.75	EKMQ201VSN681MP40S
22 × 50	0.25	3.05	EKMQ500VSN682MP50S			680	25.4 × 30	0.15	1.75	EKMQ201VSN681MQ30S
24 × 40	0.25	2.94	EKMQ500VSN682MQ40S			820	22 × 45	0.15	2.04	EKMQ201VSN821MP45S
30 × 30	0.25	3.30	EKMQ500VSN682MR30S	820		25.4 × 35	0.15	2.04	EKMQ201VSN821MQ35S	
35 × 25	0.25	2.77	EKMQ500VSN682MA25S	820		30 × 25	0.15	2.04	EKMQ201VSN821MR25S	
24 × 45	0.25	3.60	EKMQ500VSN822MQ45S	1,000		22 × 50	0.15	2.30	EKMQ201VSN102MP50S	
30 × 35	0.25	3.60	EKMQ500VSN822MR35S	1,000	25.4 × 45	0.15	2.30	EKMQ201VSN102MQ45S		
35 × 30	0.25	3.60	EKMQ500VSN822MA30S	400	1,000	30 × 30	0.15	2.30	EKMQ201VSN102MR30S	
24 × 50	0.30	4.00	EKMQ500VSN103MQ50S		1,000	35 × 25	0.15	2.30	EKMQ201VSN102MA25S	
30 × 40	0.30	4.00	EKMQ500VSN103MR40S		1,200	25.4 × 50	0.15	2.65	EKMQ201VSN122MQ50S	
35 × 30	0.30	4.00	EKMQ500VSN103MA30S		1,200	30 × 35	0.15	2.65	EKMQ201VSN122MR35S	
30 × 50	0.30	4.29	EKMQ500VSN123MR50S		1,200	35 × 30	0.15	2.65	EKMQ201VSN122MA30S	
35 × 35	0.30	4.37	EKMQ500VSN123MA35S		1,500	30 × 40	0.15	2.80	EKMQ201VSN152MR40S	
35 × 40	0.30	4.50	EKMQ500VSN153MA40S		1,500	35 × 30	0.15	2.80	EKMQ201VSN152MA30S	
35 × 50	0.30	5.30	EKMQ500VSN183MA50S		1,800	30 × 45	0.15	3.08	EKMQ201VSN182MR45S	
22 × 25	0.15	1.40	EKMQ161VSN471MP25S		1,800	35 × 40	0.15	3.08	EKMQ201VSN182MA40S	
22 × 30	0.15	1.50	EKMQ161VSN561MP30S		2,200	35 × 45	0.15	3.48	EKMQ201VSN222MA45S	
22 × 30	0.15	1.70	EKMQ161VSN681MP30S	500	220	22 × 25	0.15	1.00	EKMQ251VSN221MP25S	
24 × 25	0.15	1.70	EKMQ161VSN681MQ25S		270	22 × 25	0.15	1.10	EKMQ251VSN271MP25S	
22 × 35	0.15	2.00	EKMQ161VSN821MP35S		330	22 × 30	0.15	1.20	EKMQ251VSN331MP30S	
24 × 30	0.15	2.00	EKMQ161VSN821MQ30S		330	25.4 × 25	0.15	1.20	EKMQ251VSN331MQ25S	
30 × 25	0.15	2.00	EKMQ161VSN821MR25S		390	22 × 35	0.15	1.30	EKMQ251VSN391MP35S	
22 × 40	0.15	2.20	EKMQ161VSN102MP40S		390	25.4 × 25	0.15	1.30	EKMQ251VSN391MQ25S	
24 × 35	0.15	2.20	EKMQ161VSN102MQ35S		470	22 × 40	0.15	1.40	EKMQ251VSN471MP40S	
30 × 25	0.15	2.20	EKMQ161VSN102MR25S		470	25.4 × 30	0.15	1.40	EKMQ251VSN471MQ30S	
24 × 40	0.15	2.30	EKMQ161VSN122MQ40S		470	30 × 25	0.15	1.40	EKMQ251VSN471MR25S	
30 × 30	0.15	2.30	EKMQ161VSN122MR30S		560	22 × 45	0.15	1.50	EKMQ251VSN561MP45S	

LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Standard snap-ins, 105°C

Series

RATINGS

Case size D×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
25.4 × 25	0.15	1.70	EKM251VSN681MA25S	400	270	25.4 × 40	0.15	1.22	EKM401VSN271MQ40S
25.4 × 45	0.15	2.00	EKM251VSN821MQ45S		270	30 × 30	0.15	1.22	EKM401VSN271MR30S
30 × 35	0.15	2.00	EKM251VSN821MR35S		270	35 × 25	0.15	1.22	EKM401VSN271MA25S
35 × 30	0.15	2.00	EKM251VSN821MA30S		330	25.4 × 45	0.15	1.44	EKM401VSN331MQ45S
30 × 40	0.15	2.20	EKM251VSN102MR40S		330	30 × 35	0.15	1.44	EKM401VSN331MR35S
35 × 30	0.15	2.20	EKM251VSN102MA30S		330	35 × 30	0.15	1.44	EKM401VSN331MA30S
30 × 45	0.15	2.30	EKM251VSN122MR45S		390	25.4 × 50	0.15	1.55	EKM401VSN391MQ50S
35 × 35	0.15	2.30	EKM251VSN122MA35S		390	30 × 40	0.15	1.55	EKM401VSN391MR40S
35 × 45	0.15	2.50	EKM251VSN152MA45S		390	35 × 30	0.15	1.55	EKM401VSN391MA30S
35 × 50	0.15	2.70	EKM251VSN182MA50S		470	30 × 45	0.15	1.68	EKM401VSN471MR45S
22 × 25	0.15	0.82	EKM3B1VSN151MP25S		470	35 × 35	0.15	1.68	EKM401VSN471MA35S
22 × 30	0.15	0.90	EKM3B1VSN181MP30S		560	30 × 50	0.15	1.90	EKM401VSN561MR50S
22 × 30	0.15	1.00	EKM3B1VSN221MP30S		560	35 × 40	0.15	1.90	EKM401VSN561MA40S
25.4 × 25	0.15	1.00	EKM3B1VSN221MQ25S		680	35 × 45	0.15	2.12	EKM401VSN681MA45S
22 × 35	0.15	1.10	EKM3B1VSN271MP35S		82	22 × 25	0.20	0.64	EKM421VSN820MP25S
25.4 × 30	0.15	1.10	EKM3B1VSN271MQ30S		100	22 × 25	0.20	0.66	EKM421VSN101MP25S
22 × 45	0.15	1.20	EKM3B1VSN331MP45S		100	25.4 × 25	0.20	0.66	EKM421VSN101MQ25S
25.4 × 35	0.15	1.20	EKM3B1VSN331MQ35S		120	22 × 30	0.20	0.81	EKM421VSN121MP30S
30 × 25	0.15	1.20	EKM3B1VSN331MR25S		120	25.4 × 25	0.20	0.81	EKM421VSN121MQ25S
22 × 45	0.15	1.30	EKM3B1VSN391MP45S		150	22 × 35	0.20	0.84	EKM421VSN151MP35S
25.4 × 40	0.15	1.30	EKM3B1VSN391MQ40S		150	25.4 × 30	0.20	0.84	EKM421VSN151MQ30S
30 × 30	0.15	1.30	EKM3B1VSN391MR30S		150	30 × 25	0.20	0.84	EKM421VSN151MR25S
35 × 25	0.15	1.30	EKM3B1VSN391MA25S		180	22 × 40	0.20	0.91	EKM421VSN181MP40S
25.4 × 45	0.15	1.40	EKM3B1VSN471MQ45S		180	25.4 × 30	0.20	0.91	EKM421VSN181MQ30S
30 × 35	0.15	1.40	EKM3B1VSN471MR35S		180	30 × 25	0.20	0.91	EKM421VSN181MR25S
35 × 25	0.15	1.40	EKM3B1VSN471MA25S		220	22 × 45	0.20	1.05	EKM421VSN221MP45S
25.4 × 50	0.15	1.50	EKM3B1VSN561MQ50S		220	25.4 × 35	0.20	1.05	EKM421VSN221MQ35S
30 × 40	0.15	1.50	EKM3B1VSN561MR40S		220	30 × 30	0.20	1.05	EKM421VSN221MP30S
35 × 30	0.15	1.50	EKM3B1VSN561MA30S	220	35 × 25	0.20	1.05	EKM421VSN221MA25S	
30 × 45	0.15	1.70	EKM3B1VSN681MR45S	270	25.4 × 40	0.20	1.25	EKM421VSN271MQ40S	
35 × 35	0.15	1.70	EKM3B1VSN681MA35S	270	30 × 30	0.20	1.25	EKM421VSN271MR30S	
30 × 50	0.15	2.00	EKM3B1VSN821MR50S	270	35 × 25	0.20	1.25	EKM421VSN271MA25S	
35 × 40	0.15	2.00	EKM3B1VSN821MA40S	330	25.4 × 50	0.20	1.42	EKM421VSN331MQ50S	
35 × 45	0.15	2.30	EKM3B1VSN102MA45S	330	30 × 35	0.20	1.42	EKM421VSN331MR35S	
22 × 25	0.15	0.75	EKM351VSN121MP25S	330	35 × 30	0.20	1.42	EKM421VSN331MA30S	
22 × 30	0.15	0.82	EKM351VSN151MP30S	390	30 × 40	0.20	1.61	EKM421VSN391MR40S	
22 × 30	0.15	0.90	EKM351VSN181MP30S	390	35 × 35	0.20	1.61	EKM421VSN391MA35S	
25.4 × 25	0.15	0.90	EKM351VSN181MQ25S	470	30 × 45	0.20	1.86	EKM421VSN471MR45S	
22 × 35	0.15	1.00	EKM351VSN221MP35S	470	35 × 40	0.20	1.86	EKM421VSN471MA40S	
25.4 × 30	0.15	1.00	EKM351VSN221MQ30S	560	35 × 45	0.20	2.10	EKM421VSN561MA45S	
22 × 40	0.15	1.10	EKM351VSN271MP40S	680	35 × 50	0.20	2.20	EKM421VSN681MA50S	
25.4 × 30	0.15	1.10	EKM351VSN271MQ30S	68	22 × 25	0.20	0.50	EKM451VSN680MP25S	
30 × 25	0.15	1.10	EKM351VSN271MR25S	82	22 × 30	0.20	0.56	EKM451VSN820MP30S	
22 × 45	0.15	1.20	EKM351VSN331MP45S	100	22 × 30	0.20	0.64	EKM451VSN101MP30S	
25.4 × 40	0.15	1.20	EKM351VSN331MQ40S	100	25.4 × 25	0.20	0.64	EKM451VSN101MQ25S	
30 × 30	0.15	1.20	EKM351VSN331MR30S	120	22 × 35	0.20	0.72	EKM451VSN121MP35S	
25.4 × 45	0.15	1.30	EKM351VSN391MQ45S	120	25.4 × 30	0.20	0.72	EKM451VSN121MQ30S	
30 × 35	0.15	1.30	EKM351VSN391MR35S	150	22 × 40	0.20	0.79	EKM451VSN151MP40S	
25.4 × 50	0.15	1.40	EKM351VSN471MQ50S	150	25.4 × 30	0.20	0.79	EKM451VSN151MQ30S	
30 × 35	0.15	1.40	EKM351VSN471MR35S	150	30 × 25	0.20	0.79	EKM451VSN151MR25S	
35 × 30	0.15	1.40	EKM351VSN471MA30S	180	22 × 45	0.20	0.87	EKM451VSN181MP45S	
30 × 45	0.15	1.50	EKM351VSN561MR45S	180	25.4 × 40	0.20	0.87	EKM451VSN181MQ40S	
35 × 35	0.15	1.50	EKM351VSN561MA35S	180	30 × 30	0.20	0.87	EKM451VSN181MR30S	
30 × 50	0.15	1.70	EKM351VSN681MR50S	220	25.4 × 45	0.20	1.00	EKM451VSN221MQ45S	
35 × 40	0.15	1.70	EKM351VSN681MA40S	220	30 × 30	0.20	1.00	EKM451VSN221MR30S	
35 × 45	0.15	1.90	EKM351VSN821MA45S	220	35 × 25	0.20	1.00	EKM451VSN221MA25S	
22 × 25	0.15	0.70	EKM401VSN101MP25S	270	25.4 × 50	0.20	1.19	EKM451VSN271MQ50S	
22 × 30	0.15	0.75	EKM401VSN121MP30S	270	30 × 40	0.20	1.19	EKM451VSN271MR40S	
22 × 30	0.15	0.88	EKM401VSN151MP30S	270	35 × 30	0.20	1.19	EKM451VSN271MA30S	
25.4 × 25	0.15	0.88	EKM401VSN151MQ25S	330	30 × 45	0.20	1.38	EKM451VSN331MR45S	
22 × 35	0.15	0.95	EKM401VSN181MP35S	330	35 × 35	0.20	1.38	EKM451VSN331MA35S	
25.4 × 30	0.15	0.95	EKM401VSN181MQ30S	390	30 × 50	0.20	1.55	EKM451VSN391MR50S	

Snap-in

LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Standard snap-ins, 105°C

Series

RIPPLE CURRENT MULTIPLIERS

Multipliers

50	120	300	1k	10k	50k
0.95	1.00	1.03	1.05	1.08	1.08
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 lifetime is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. If maximum performance is required in actual use, the rms ripple current has to be reduced.

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[B41022A5686M6](#) [ESRG250ELL101MH09D](#) [EKMA160EC3101MF07D](#) [RJB-10V471MG3#](#) [ESMG160ETD221MF11D](#)
[EKZH160ETD152MJ20S](#) [RJH-35V122MJ6#](#) [EGXF630ELL621ML20S](#) [RBD-25V100KE3#N](#) [EKMA350ELL100ME07D](#)
[ESMG160ETD101ME11D](#) [ELXY100ETD102MJ20S](#) [EGXF500ELL561ML15S](#) [EKMG350ETD471MJ16S](#) [35YXA330MEFC10X12.5](#)
[RXW471M1ESA-0815](#) [ELXZ630ELL221MJ25S](#) [ERR1HM1R0D11OT](#) [LPE681M30060FVA](#) [LPL471M22030FVA](#) [HFE221M25030FVA](#)
[LKMD1401H221MF](#) [B41888G6108M000](#) [EKMA160ETD470MF07D](#) [UHW1J102MHD6](#) [EKMG500ETD221MJC5S](#) [LKMK2502W101MF](#)
[LKMD1401H181MF](#) [LKMI2502G820MF](#) [LKMJ2001J122MF](#) [LKML2501C472MF](#) [LKMJ4002C681MF](#) [450MXH330MEFCSN25X45](#)
[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)