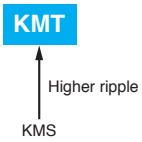
NIPPON CHEMI-CON

LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

High ripple snap-ins, 105℃

New!

KMT Series



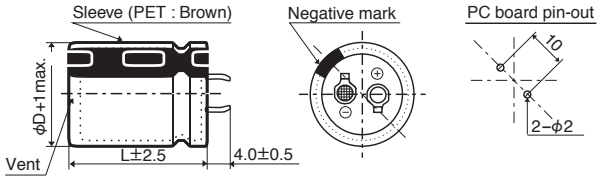
- Higher ripple current from KMS series
- Endurance with ripple current : 3,000 hours at 105℃
- Rated voltage range : 420, 450Vdc, Capacitance range : 82 to 680μF
- For inverter control, switching power supplies
- Non solvent resistant type
- **RoHS Compliant**

◆SPECIFICATIONS

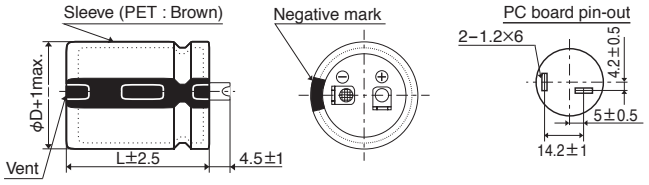
Items	Characteristics		
Category Temperature Range	−25 to +105℃		
Rated Voltage Range	420, 450Vdc		
Capacitance Tolerance	±20% (M)		(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)		(at 20℃ after 5 minutes)
Dissipation Factor (tanδ)	Rated voltage (Vdc)	420 & 450V	
	tanδ (Max.)	0.20	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	420 & 450V	
	Z(−25℃)/Z(+20℃)	8	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 3,000 hours at 105℃.		
	Capacitance change	≦±20% of the initial value	
	D.F. (tanδ)	≦200% of the initial specified value	
	Leakage current	≦The initial specified value	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ 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. (tanδ)	≦150% of the initial specified value	
	Leakage current	≦The initial specified value	

◆DIMENSIONS [mm]

●Terminal Code : VS (φ22 to φ35) : Standard

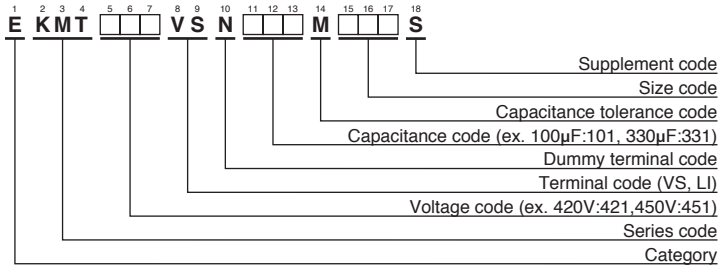


●Terminal Code : LI (φ35)



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (snap-in type)"

CAT. No. E1001M

New!

KMT Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/105℃,120Hz)	Part No.
420	100	22×25	0.20	0.89	EKMT421VSN101MP25S
	120	22×30	0.20	1.06	EKMT421VSN121MP30S
	120	25.4×25	0.20	1.09	EKMT421VSN121MQ25S
	150	22×35	0.20	1.21	EKMT421VSN151MP35S
	180	22×40	0.20	1.34	EKMT421VSN181MP40S
	180	25.4×30	0.20	1.28	EKMT421VSN181MQ30S
	180	30×25	0.20	1.42	EKMT421VSN181MR25S
	220	22×45	0.20	1.47	EKMT421VSN221MP45S
	220	22×50	0.20	1.60	EKMT421VSN221MP50S
	220	25.4×35	0.20	1.47	EKMT421VSN221MQ35S
	220	30×30	0.20	1.64	EKMT421VSN221MR30S
	220	35×25	0.20	1.64	EKMT421VSN221MA25S
	270	25.4×40	0.20	1.63	EKMT421VSN271MQ40S
	270	25.4×45	0.20	1.79	EKMT421VSN271MQ45S
	270	30×35	0.20	1.87	EKMT421VSN271MR35S
	330	25.4×50	0.20	1.93	EKMT421VSN331MQ50S
	330	30×40	0.20	2.10	EKMT421VSN331MR40S
	330	35×30	0.20	2.05	EKMT421VSN331MA30S
	390	30×45	0.20	2.32	EKMT421VSN391MR45S
	390	35×35	0.20	2.32	EKMT421VSN391MA35S
	470	30×50	0.20	2.51	EKMT421VSN471MR50S
	470	35×40	0.20	2.62	EKMT421VSN471MA40S
	560	35×45	0.20	2.88	EKMT421VSN561MA45S
	680	35×50	0.20	3.10	EKMT421VSN681MA50S

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/105℃,120Hz)	Part No.
450	82	22×25	0.20	0.81	EKMT451VSN820MP25S
	100	22×30	0.20	0.97	EKMT451VSN101MP30S
	100	25.4×25	0.20	1.04	EKMT451VSN101MQ25S
	120	22×35	0.20	1.08	EKMT451VSN121MP35S
	150	22×40	0.20	1.22	EKMT451VSN151MP40S
	150	25.4×35	0.20	1.31	EKMT451VSN151MQ35S
	150	30×25	0.20	1.31	EKMT451VSN151MR25S
	180	22×45	0.20	1.35	EKMT451VSN181MP45S
	180	22×50	0.20	1.42	EKMT451VSN181MP50S
	180	25.4×40	0.20	1.35	EKMT451VSN181MQ40S
	180	30×30	0.20	1.49	EKMT451VSN181MR30S
	180	35×25	0.20	1.60	EKMT451VSN181MA25S
	220	25.4×45	0.20	1.55	EKMT451VSN221MQ45S
	220	30×35	0.20	1.71	EKMT451VSN221MR35S
	270	25.4×50	0.20	1.74	EKMT451VSN271MQ50S
	270	30×40	0.20	1.90	EKMT451VSN271MR40S
	270	35×30	0.20	1.90	EKMT451VSN271MA30S
	330	30×45	0.20	2.20	EKMT451VSN331MR45S
	330	35×35	0.20	2.20	EKMT451VSN331MA35S
	390	30×50	0.20	2.40	EKMT451VSN391MR50S
	390	35×40	0.20	2.42	EKMT451VSN391MA40S
	470	35×45	0.20	2.67	EKMT451VSN471MA45S
	560	35×50	0.20	2.85	EKMT451VSN561MA50S

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
420, 450Vdc	0.68	1.00	1.16	1.30	1.41	1.43

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced.