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

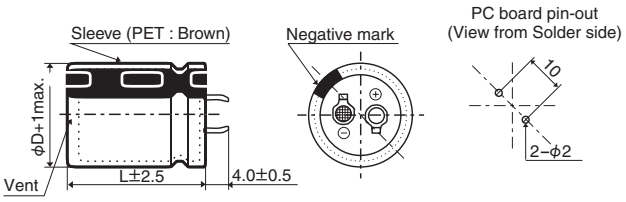
KMT
↑ Higher ripple
KMS P249

◆SPECIFICATIONS

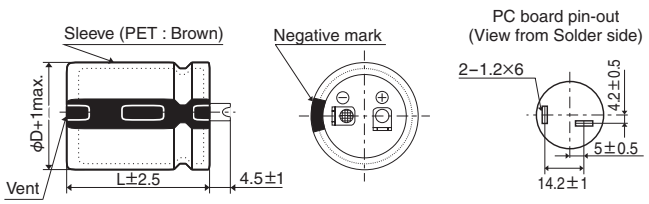
Items	Characteristics		
Category Temperature Range	-25 to +105℃		
Rated Voltage Range	420, 450Vdc		
Capacitance Tolerance	±20% (M)		(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)		(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	Rated voltage (Vdc)	420 & 450V	
	tan δ (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. (tan δ)	≦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. (tan δ)	≦150% of the initial specified value	
	Leakage current	≦The initial specified value	

◆DIMENSIONS [mm]

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

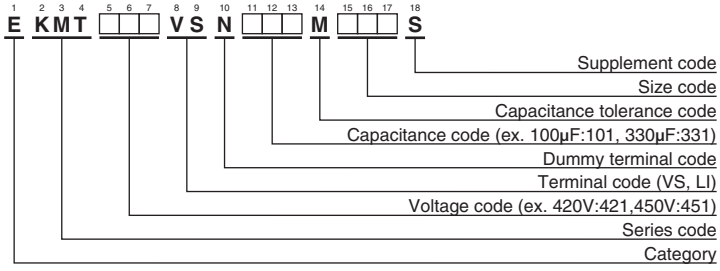


●Terminal Code : LI (φ35)



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



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

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KMT Series

◆STANDARD RATINGS

WV (V_{dc})	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 (V_{dc})	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, 450V_{dc}	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.

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