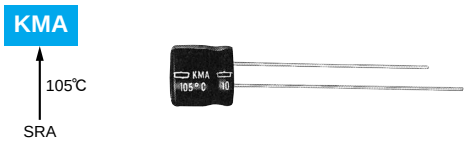
KMA Series

- 7mm height
- Endurance : 1,000 hours at 105℃
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- **RoHS Compliant**

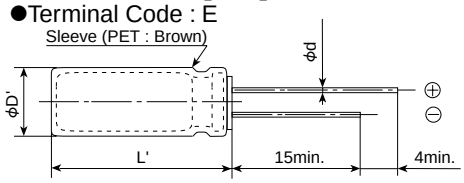


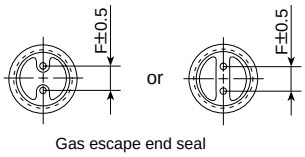
◆SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	−55 to +105℃									
Rated Voltage Range	4 to 63Vdc									
Capacitance Tolerance	±20% (M)									(at 20℃, 120Hz)
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)									(at 20℃ after 2 minutes)
Dissipation Factor (tanδ)	Rated voltage (Vdc)	4V	6.3V	10V	16V	25V	35V	50V	63V	
	tanδ (Max.)	0.35	0.22	0.19	0.16	0.14	0.12	0.10	0.08	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	4V	6.3V	10V	16V	25V	35V	50V	63V	
	Z(−25℃)/Z(+20℃)	4	3	2	2	2	2	2	2	
	Z(−40℃)/Z(+20℃)	10	6	5	3	3	3	3	3	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 1,000 hours at 105℃.									
	Rated voltage	4 to 16Vdc				25 to 63Vdc				
	Capacitance change	≦±25% of the initial value				≦±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.									
	Rated voltage	4 to 16Vdc				25 to 63Vdc				
	Capacitance change	≦±25% of the initial value				≦±20% of the initial value				
	D.F. (tanδ)	≦200% of the initial specified value								
	Leakage current	≦The initial specified value								

◆DIMENSIONS [mm]

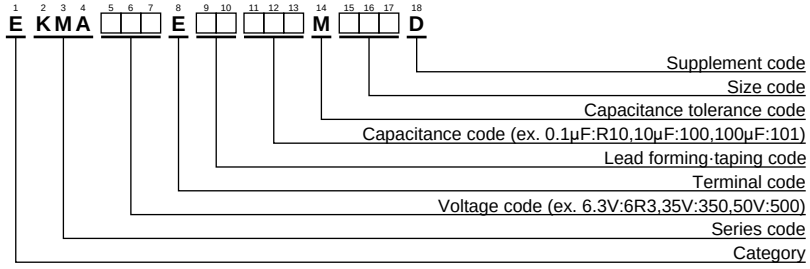
- Terminal Code : E





φD	4	5	6.3
φd	0.45	0.45	0.45
F	1.5	2.0	2.5
φD'	φD+0.5max.		
L'	L+1.0max.		

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (radial lead type)"

KMA Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φDXL(mm)	tanδ	Rated ripple current (mArms/ 105℃,120Hz)	Part No.
4	33	4X7	0.35	26	EKMA4R0E□□330MD07D
	47	4X7	0.35	34	EKMA4R0E□□470MD07D
	100	5X7	0.35	61	EKMA4R0E□□101ME07D
	220	6.3X7	0.35	95	EKMA4R0E□□221MF07D
6.3	22	4X7	0.22	31	EKMA6R3E□□220MD07D
	47	5X7	0.22	47	EKMA6R3E□□470ME07D
10	15	4X7	0.19	28	EKMA100E□□150MD07D
	33	5X7	0.19	43	EKMA100E□□330ME07D
	68	6.3X7	0.19	63	EKMA100E□□680MF07D
	100	6.3X7	0.19	80	EKMA100E□□101MF07D
16	6.8	4X7	0.16	20	EKMA160E□□6R8MD07D
	10	4X7	0.16	25	EKMA160E□□100MD07D
	15	5X7	0.16	31	EKMA160E□□150ME07D
	22	5X7	0.16	39	EKMA160E□□220ME07D
	47	6.3X7	0.16	59	EKMA160E□□470MF07D
	100	6.3X7	0.16	97	EKMA160E□□101MF07D
25	33	6.3X7	0.14	53	EKMA250E□□330MF07D
	47	6.3X7	0.14	71	EKMA250E□□470MF07D
35	4.7	4X7	0.12	20	EKMA350E□□4R7MD07D
	6.8	5X7	0.12	24	EKMA350E□□6R8ME07D
	10	5X7	0.12	30	EKMA350E□□100ME07D
	15	6.3X7	0.12	37	EKMA350E□□150MF07D
	22	6.3X7	0.12	47	EKMA350E□□220MF07D
	33	6.3X7	0.12	64	EKMA350E□□330MF07D

□□ : Enter the appropriate lead forming or taping code.

WV (Vdc)	Cap (μF)	Case size φDXL(mm)	tanδ	Rated ripple current (mArms/ 105℃,120Hz)	Part No.
50	0.10	4X7	0.10	1.3	EKMA500E□□R10MD07D
	0.15	4X7	0.10	2.0	EKMA500E□□R15MD07D
	0.22	4X7	0.10	2.9	EKMA500E□□R22MD07D
	0.33	4X7	0.10	3.5	EKMA500E□□R33MD07D
	0.47	4X7	0.10	5.0	EKMA500E□□R47MD07D
	0.68	4X7	0.10	7.1	EKMA500E□□R68MD07D
	1.0	4X7	0.10	10	EKMA500E□□1R0MD07D
	1.5	4X7	0.10	12	EKMA500E□□1R5MD07D
	2.2	4X7	0.10	15	EKMA500E□□2R2MD07D
	3.3	4X7	0.10	18	EKMA500E□□3R3MD07D
	4.7	5X7	0.10	23	EKMA500E□□4R7ME07D
	6.8	6.3X7	0.10	28	EKMA500E□□6R8MF07D
	10	6.3X7	0.10	34	EKMA500E□□100MF07D
	22	6.3X7	0.10	57	EKMA500E□□220MF07D
63	0.10	4X7	0.08	1.3	EKMA630E□□R10MD07D
	0.15	4X7	0.08	1.9	EKMA630E□□R15MD07D
	0.22	4X7	0.08	2.9	EKMA630E□□R22MD07D
	0.33	4X7	0.08	4.4	EKMA630E□□R33MD07D
	0.47	4X7	0.08	7.9	EKMA630E□□R47MD07D
	0.68	4X7	0.08	9.2	EKMA630E□□R68MD07D
	1.0	4X7	0.08	11	EKMA630E□□1R0MD07D
	1.5	4X7	0.08	13	EKMA630E□□1R5MD07D
	2.2	4X7	0.08	17	EKMA630E□□2R2MD07D
	3.3	5X7	0.08	21	EKMA630E□□3R3ME07D
	4.7	6.3X7	0.08	26	EKMA630E□□4R7MF07D
	10	6.3X7	0.08	43	EKMA630E□□100MF07D