



OLow profile: ϕ 10×12.5mm to ϕ 18×25mm ■ Endurance: 1,000 hours at 105°C

Solvent resistant type (see PRECAUTIONS AND GUIDELINES)

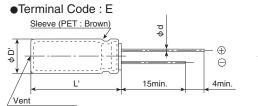
■ RoHS2 Compliant

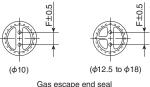


◆SPECIFICATIONS

Items	Characteristics										
Category Temperature Range	-55 to +105℃										
Rated Voltage Range	6.3 to 50V _{dc}										
Capacitance Tolerance	±20% (M) (at 20°C, 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°C after 2 minutes)										
Dissipation Factor	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V				
(tan δ)	$tan \delta$ (Max.)	0.28	0.24	0.20	0.16	0.14	0.12				
	When nominal capacitance exceeds 1,000µF, add 0.03 to the value above for each 1,000µF increase. (at 20°C, 12										
Low Temperature	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V				
Characteristics	Z(-25°C)/Z(+20°C)	5	4	3	2	2	2				
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	10	8	6	4	3	3		(at 120Hz)		
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 1,000 hours at 105°C.										
	Rated voltage 6.3 to 16V _{dc}							25 to 50V _{dc}			
	Capacitance change	≦±	25% of	the init	tial valu	ie	≤±20% of the initial value				
	D.F. (tan δ)	≦20	0% of t	he initi	al spec	ified va	≤200% of the initial specified value				
	Leakage current	≦Th	e initia	specif	ied val	≦The initial specified value					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 105°C voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C										
	Rated voltage	6.3 to	16Vdd				25 to 50V _{dc}				
	Capacitance change	≦±	25% of	the init	tial valu	ie		≤±20% of the initial value			
	D.F. (tan δ)	≦20	0% of t	he initi	al spec	ified va	alue	≦200% of the initial specified value			
	Leakage current	≦Th	e initia	specif	ied val	ue		≦The initial specified value			

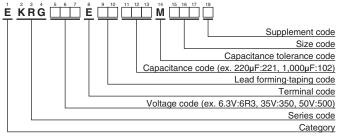
◆DIMENSIONS [mm]





φD	10 & 12.5	16 & 18					
φd	0.6	0.8					
F	5.0	7.5					
φD'	φD+0.5max.						
L'	L+1.5max.						

◆PART NUMBERING SYSTEM



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





STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (mArms/ 105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (mArms/ 105°C, 120Hz)	Part No.
	4,700	16 × 15	0.37	1,010	EKRG6R3E□□472ML15S		470	10 × 12.5	0.16	370	EKRG250E□□471MJC5S
6.3	6,800	18 × 15	0.43	1,190	EKRG6R3E□□682MM15S		1,000	12.5 × 15	0.16	590	EKRG250E□□102MK15S
	10,000	18 × 20	0.55	1,440	EKRG6R3E□□103MM20S	25	2,200	18 × 15	0.19	970	EKRG250E□□222MM15S
	1,000	10 × 12.5	0.24	445	EKRG100E□□102MJC5S		3,300	18×20	0.22	1,220	EKRG250E□□332MM20S
	2,200	12.5 × 15	0.27	690	EKRG100E□□222MK15S		4,700	18 × 25	0.25	1,470	EKRG250E□□472MM25S
10	3,300	16 × 15	0.30	940	EKRG100E□□332ML15S		330	10 × 12.5	0.14	340	EKRG350E□□331MJC5S
10	4,700	18 × 15	0.33	1,120	EKRG100E□□472MM15S	35	470	12.5 × 13	0.14	415	EKRG350E□□471MK13S
	6,800	18 × 20	0.39	1,330	EKRG100E□□682MM20S	33	1,000	16×15	0.14	720	EKRG350E□□102ML15S
	10,000	18 × 25	0.51	1,700	EKRG100E□□103MM25S		2,200	18×20	0.17	1,110	EKRG350E□□222MM20S
	1,000	12.5 × 13	0.20	515	EKRG160E□□102MK13S		220	10 × 12.5	0.12	290	EKRG500E□□221MJC5S
	2,200	16×15	0.23	830	EKRG160E□□222ML15S	50	330	12.5 × 13	0.12	370	EKRG500E□□331MK13S
16	3,300	18 × 15	0.26	1,050	EKRG160E□□332MM15S	50	470	16×15	0.12	535	EKRG500E□□471ML15S
	4,700	18 × 20	0.29	1,260	EKRG160E□□472MM20S		1,000	18 × 20	0.12	830	EKRG500E□□102MM20S
	6,800	18 × 25	0.35	1,560	EKRG160E□□682MM25S						

 $[\]square$: Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(µF) Frequency(Hz)	50	120	300	1k	10k	100k
220 to 1,000	0.80	1.00	1.15	1.30	1.40	1.50
2,200 to	0.85	1.00	1.03	1.05	1.08	1.08

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
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Part Numbering System
Part Numbering System (Appendix)
Standardization
Available Items by Manufacturing Locations
Environmental Measures
Technical Note
Precautions and Guidelines
Recommended Soldering Conditions
Taping, Lead-preforming and Packaging
Available Terminals for Snap-in and Screw Mount Type