KRG_{Series}

• Low profile : ϕ 10×12.5mm to ϕ 18×25mm

■Endurance : 1,000 hours at 105°C

Solvent resistant type (see PRECAUTIONS AND GUIDELINES)

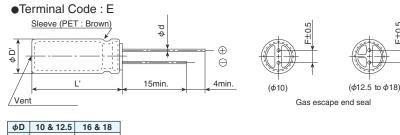
RoHS2 Compliant

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)	tanδ (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, 120Hz)											
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	o 16V _{dc}				25 to 50V _{dc}					
	Capacitance change	≦±ż	25% of	the init	tial valu	le	$\leq \pm 20\%$ 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	l specif	≦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 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	6.3 to	o 16V _{dc}				25 to 50V _{dc}					
	Capacitance change	≦±ź	25% of	the init	tial valu	le		$\leq \pm 20\%$ 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	\leq The initial specified value						≦The initial specified value				

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DIMENSIONS [mm]



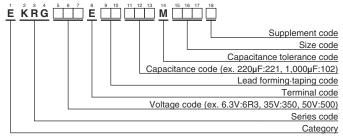
 φd
 0.6
 0.8

 F
 5.0
 7.5

 φD'
 φD+0.5max.
 L'

 L'
 L+1.5max.

◆PART NUMBERING SYSTEM



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

KRG_{Series}

♦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 G82MM20S		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						

 \Box : 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.

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CHEMI-CON ALUMINUM ELECTROLYTIC CAPACITORS

- 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.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.

Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.

- We strongly recommend our customers to purchase Nippon Chemi-Con products only through our official sales channels. We assume no responsibility for any defects or damages caused by using products purchased from outside our official sales channel or of counterfeit goods. In addition, we will ask the customer to pay the investigation cost for products purchased outside our official sales channel.
- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.

In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

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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