

SRGSeries

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

■ Endurance: 2,000 hours at 85°C

● Solvent resistant type (see PRECAUTIONS AND GUIDELINES)

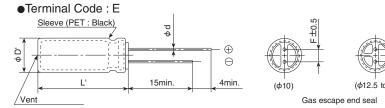
● RoHS2 Compliant



SPECIFICATIONS

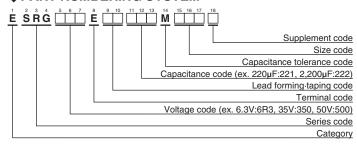
Items	Characteristics										
Category Temperature Range	-40 to +85℃										
Rated Voltage Range	6.3 to 50V _{dc}										
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)										
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)										
Dissipation Factor	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V				
(tan δ)	tan δ (Max.)	0.28	0.24	0.20	0.16	0.14	0.12				
	When nominal capacitan	ce exce	eds 1,	000μF,	add 0	.03 to t	he valu	e above for each 1,000μF increase. (at 20°C, 120Hz)			
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V				
	Z(-25°C)/Z(+20°C)	5	4	3	2	2	2				
	Z(-40°C)/Z(+20°C)	12	10	8	5	4	3	(at 120Hz)			
Endurance The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is a at 85°C.											
	Capacitance change	≦±	20% of	the ini	tial valı	ıe					
	D.F. (tan δ)	≦20	0% of t	he initi	al spec	ified va	alue				
	Leakage current	≦Th	e initia	l specif	ied val	ue					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 85°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.										
	Capacitance change	≤±	20% of	the ini	tial valı	ne					
	D.F. (tan δ)	≦200% of the initial specified value									
	Leakage current	≦Th	e initia	l specif	ied val	ue					

◆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)"



SRGSeries

STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case code φD×L(mm)	tan δ	Rated ripple current (mArms/ 85°C, 120Hz)	Part No.	WV (V _{dc})	Cap (µF)	Case code φD×L(mm)		Rated ripple current (mArms/ 85°C, 120Hz)	Part No.
	4,700	16 × 15	0.37	1,410	ESRG6R3E□□472ML15S		470	10 × 12.5	0.16	525	ESRG250E□□471MJC5S
6.3	6,800	18 × 15	0.43	1,660	ESRG6R3E□□682MM15S		1,000	12.5 × 15	0.16	830	ESRG250E□□102MK15S
	10,000	18 × 20	0.55	2,020	ESRG6R3E□□103MM20S	25	2,200	18 × 15	0.19	1,360	ESRG250E□□222MM15S
	1,000	10 × 12.5	0.24	625	ESRG100E□□102MJC5S		3,300	18×20	0.22	1,720	ESRG250E□□332MM20S
	2,200	12.5 × 15	0.27	970	ESRG100E□□222MK15S		4,700	18 × 25	0.25	2,070	ESRG250E□□472MM25S
10	3,300	16 × 15	0.30	1,310	ESRG100E□□332ML15S		330	10 × 12.5	0.14	475	ESRG350E□□331MJC5S
10	4,700	18 × 15	0.33	1,560	ESRG100E□□472MM15S	35	470	12.5 × 13	0.14	585	ESRG350E□□471MK13S
	6,800	18 × 20	0.39	1,870	ESRG100E□□682MM20S	33	1,000	16×15	0.14	1,010	ESRG350E□□102ML15S
	10,000	18 × 25	0.51	2,370	ESRG100E□□103MM25S		2,200	18×20	0.17	1,560	ESRG350E□□222MM20S
	1,000	12.5 × 13	0.20	715	ESRG160E□□102MK13S		220	10 × 12.5	0.12	415	ESRG500E□□221MJC5S
	2,200	16×15	0.23	1,160	ESRG160E□□222ML15S	50	330	12.5 × 13	0.12	525	ESRG500E□□331MK13S
16	3,300	18 × 15	0.26	1,460	ESRG160E□□332MM15S	30	470	16×15	0.12	745	ESRG500E□□471ML15S
	4,700	18 × 20	0.29	1,770	ESRG160E□□472MM20S		1,000	18 × 20	0.12	1,160	ESRG500E□□102MM20S
	6,800	18 × 25	0.35	2,170	ESRG160E□□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.



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

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