

Aluminum Electrolytic Type / Surface Mount Type

RoHS compliance

# RX

Series **Super Low ESR**  
**Small, High Capacitance**



- 105°C 2,000 to 5,000hours
- Solvent proof (within 2 minutes)

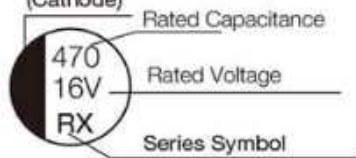
## ■ Specifications

Items	Condition	Specifications						
Rated voltage (V)	—	6.3	10	16	25	35	50	
Surge voltage (V)	Room temperature	8.0	13	20	32	44	63	
Category temperature range (°C)	—	-55 to +105						
Capacitance tolerance (%)	120Hz/20°C	M : ±20						
Dissipation Factor(tan δ)	tanδ(max) 120Hz/20°C	φ4 to φ6.3	0.24	0.20	0.16	0.14	0.12	0.12
		φ8 to φ10	0.26	0.24	0.20	0.16	0.14	0.14
Leakage current(LC)	μA/after 2minutes (max)	Exceeding 1,000μF, +0.02 every 1,000μF The greater value of either 0.01CV or 3μA						
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-40°C Z/Z <sub>20°C</sub>	3	2	2	2	2	2
		-55°C Z/Z <sub>20°C</sub>	5	4	4	3	3	3
Endurance	105°C 2,000hours rated voltage applied (With the rated ripple current)	Test	6.3V.DC : 3,000hours, φ8×10.5 and φ10×10.5 : 5,000hours					
		ΔC/C	Within ±30% of the initial value					
		tanδ	Less than 300% of the specified value					
		LC	Less than the specified value					

## ■ Marking, Dimensions

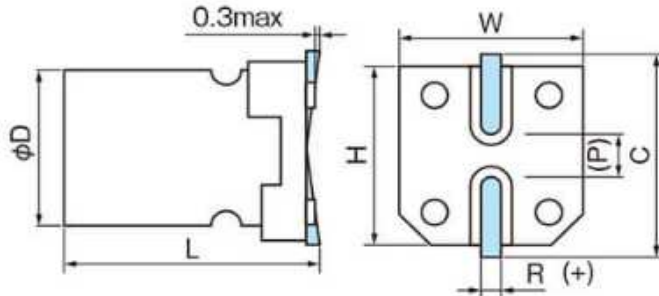
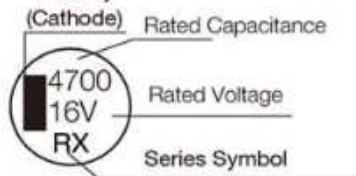
[  $\phi D \leq 10$  ]

Polarity (Cathode) Black print on the case top



[  $\phi D \geq 12.5$  ]

Polarity (Cathode) Rated Capacitance



A pressure relief vent is provided for  $\phi D=8$  or bigger (P)reference size

(Unit : mm)

$D \pm 0.5$	$L$	$W \pm 0.2$	$H \pm 0.2$	$C \pm 0.2$	$R$	$P \pm 0.2$
4	$5.4 \pm 0.4$	4.3	4.3	5.1	0.5 to 0.8	1.0
5	$5.4 \pm 0.4$	5.3	5.3	6.1	0.5 to 0.8	1.3
6.3	$5.4 \pm 0.4$	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	$7.7 \pm 0.4$	6.6	6.6	7.3	0.5 to 0.8	2.2
8	$6.5 \pm 0.5$	8.3	8.3	9.2	0.7 to 1.0	3.1
8	$10.5 \pm 0.5$	8.3	8.3	9.2	0.7 to 1.0	3.1
10	$10.5 \pm 0.5$	10.3	10.3	11.2	1.0 to 1.4	4.4

## ■ Ripple Current Frequency Coefficient

Frequency:F(Hz)		$100 \leq F < 1k$	$1k \leq F < 10k$	$10k \leq F < 100k$	$100k \leq F$
Capacitance:C( $\mu F$ )	$C \leq 33$	0.35	0.70	0.90	1.00
	$33 < C \leq 150$	0.40	0.85	0.92	1.00
	$150 < C$	0.60	0.85	0.95	1.00

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## ■ Size, Impedance, Rated Ripple Current

μF	V	6.3			10			16			25			35			50		
		Case size	Impedance	Rated ripple current	Case size	Impedance	Rated ripple current	Case size	Impedance	Rated ripple current	Case size	Impedance	Rated ripple current	Case size	Impedance	Rated ripple current	Case size	Impedance	Rated ripple current
10																	4×5.8	2.30	85
																		5×5.8	0.88
22														4×5.8	0.85	160	5×5.8	0.88	165
33										4×5.8	0.85	160	5×5.8	0.36	240				
47								4×5.8	0.85	160	5×5.8	0.36	240	5×5.8	0.36	240	6.3×5.8	0.68	195
68					4×5.8	0.85	160	5×5.8	0.36	240	5×5.8	0.36	240	6.3×5.8	0.26	300			
100		4×5.8	0.85	160				5×5.8	0.36	240	6.3×5.8	0.26	300	6.3×5.8	0.26	300	6.3×7.7	0.34	350
150					5×5.8	0.36	240	6.3×5.8	0.26	300	6.3×7.7	0.16	600	6.3×7.7	0.16	600			
220		5×5.8	0.36	240	6.3×5.8	0.26	300	6.3×5.8	0.26	300	6.3×7.7	0.16	600				8×10.5	0.18	670
330		6.3×5.8	0.26	300	6.3×7.7	0.16	600	6.3×7.7	0.16	600				8×10.5	0.08	850	10×10.5	0.12	450
390													8×10.5	0.08	850	8×10.5	0.08	850	
470		6.3×7.7	0.16	600	6.3×7.7	0.16	600	8×6.5	0.16	600	8×10.5	0.08	850						
560													8×10.5	0.08	850	10×10.5	0.06	1100	
680		6.3×7.7	0.16	600				8×10.5	0.08	850						10×10.5	0.06	1190	
820								8×10.5	0.08	850	10×10.5	0.06	1190						
1000					8×10.5	0.08	850	10×10.5	0.06	1190	10×10.5	0.06	1190						
1200								10×10.5	0.06	1190									
1500		8×10.5	0.08	850	10×10.5	0.06	1190												
2200		10×10.5	0.06	1190															

Case size: φDxL(mm)

Impedance(Ω)  
max at 100kHz, 20°C

Rated ripple current  
mA rms(100kHz, 105°C)