RX Series

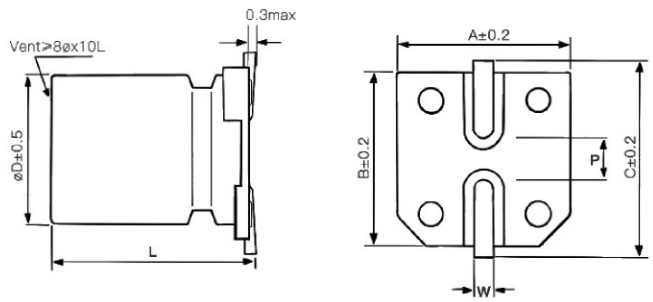
Features

- ●105℃ Miniaturized,Extra Low Impedance,Load life 2000 hours
- ●Designed for reflow soldering
- ●Designed for surface mounting on high density PC board
- ●Compliant to the RoHS directive
- ●105℃小型化、极低阻抗品，寿命2000小时
- ●适合回流焊
- ●专为高密度PC板表面安装而设计
- ●RoHS指令对策品

Marking color：Black

Specifications								
Category temp. range	–55℃ to +105℃							
Capacitance tolerance	±20% (120 Hz / +20 ℃)							
Leakage current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)							
Tan δ	Please see the attached characteristics list							
Characteristics at low temperature	Rated voltage (V)	6.3	10	16	25	35	50	Impedance ratio at 120 Hz
	Z (-25 ℃) / Z (+20 ℃)	4	3	2	2	2	2	
	Z (-55 ℃) / Z (+20 ℃)	8	5	4	3	3	3	
Endurance	After applying rated working voltage for 2000 hours at +105 ℃ ± 2 ℃, and then being stabilized at +20 ℃ , capacitors shall meet the following limits.							
	Capacitance change	Within ±30% of the initial value						
	Dissipation factor (tan δ)	Less than 200% of the initial value						
	Leakage current	Within the initial limit						
Shelf life	After storage for 1000 h at +105 ℃ ± 2 ℃ with no voltage applied and then being stabilized at +20 ℃, capacitors shall meet the limits specified in endurance.							
Resistance to soldering heat	After reflow soldering and then being stabilized at +20 ℃, capacitors shall meet the following limits.							
	Capacitance change	Within ±10% of the initial value						
	Dissipation factor (tan δ)	Within the initial limit						
	Leakage current	Within the initial limit						
Frequency correction factor for ripple current	Frequency	50Hz		120Hz		1kHz		10kHz≦
	C ≦ 470μF	0.5		0.65		0.85		1.0
	C > 470μF	0.55		0.7		0.9		1.0

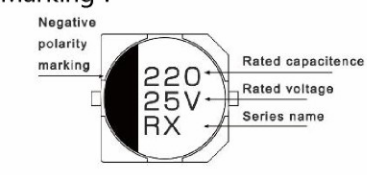
Dimensions：



Dimensions Unit：mm

ϕD	L	A	B	C	W	P±0.2
4	5.7±0.3	4.3	4.3	5.1	0.5~0.8	1.0
5	5.7±0.3	5.3	5.3	6.1	0.5~0.8	1.3
6.3	5.7±0.3	6.6	6.6	7.3	0.5~0.8	2.2
6.3	7.7±0.3	6.6	6.6	7.3	0.5~0.8	2.2
8	6.5±0.3	8.3	8.3	9.2	0.7~1.2	3.1
8	10.5±0.5	8.3	8.3	9.2	0.7~1.2	3.1
10	10.5±0.5	10.3	10.3	11.2	0.7~1.2	4.4

Marking：



Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification			Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	Imp.② (Ω)	tan δ③	MPQ (pcs/reel)
6.3	100	4	5.7	160	1.25	0.26	2000
	220	5	5.7	240	0.76	0.26	1000
	330	6.3	5.7	300	0.36	0.26	1000
	470	6.3	7.7	600	0.26	0.26	1000
	680	6.3	7.7	600	0.26	0.26	1000
	1500	8	10.5	850	0.16	0.28	500
	2200	10	10.5	1190	0.08	0.32	500
10	68	4	5.7	160	1.25	0.19	2000
	150	5	5.7	240	0.76	0.19	1000
	220	6.3	5.7	300	0.36	0.19	1000
	330	6.3	7.7	600	0.26	0.19	1000
	470	6.3	7.7	600	0.26	0.19	1000
	1000	8	10.5	850	0.16	0.21	500
	1500	10	10.5	1190	0.08	0.21	500
16	47	4	5.7	160	1.25	0.16	2000
	68	5	5.7	240	0.76	0.16	1000
	100	5	5.7	240	0.76	0.16	1000
	150	6.3	5.7	300	0.36	0.16	1000
	220	6.3	5.7	300	0.36	0.16	1000
	330	6.3	7.7	600	0.26	0.16	1000
	470	8	6.5	600	0.16	0.16	1000
	680	8	10.5	850	0.16	0.16	500
	820	8	10.5	850	0.16	0.16	500
	1000	10	10.5	1190	0.08	0.18	500
	1200	10	10.5	1190	0.08	0.18	500

① Rated ripple current (100kHz / +105℃) ② Impedance (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

④ For plastic reel packaging , the Part Number is appended with "PR" at the end.

※Please refer to the page of reflow conditions for reflow profile.

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification			Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	Imp.② (Ω)	tan δ③	MPQ (pcs/reel)
25	22	4	5.7	160	1.25	0.14	2000
	33	4	5.7	160	1.25	0.14	2000
	47	5	5.7	240	0.76	0.14	1000
	68	5	5.7	240	0.76	0.14	1000
	100	6.3	5.7	300	0.36	0.14	1000
	150	6.3	7.7	600	0.26	0.14	1000
	220	6.3	7.7	600	0.26	0.14	1000
	390	8	10.5	850	0.16	0.14	500
	470	8	10.5	850	0.16	0.14	500
	560	8	10.5	850	0.16	0.14	500
	820	10	10.5	1190	0.08	0.14	500
	1000	10	10.5	1190	0.08	0.16	500
35	22	4	5.7	160	1.25	0.12	2000
	33	5	5.7	240	0.76	0.12	1000
	47	5	5.7	240	0.76	0.12	1000
	68	6.3	5.7	300	0.36	0.12	1000
	100	6.3	5.7	300	0.36	0.12	1000
	150	6.3	7.7	600	0.26	0.12	1000
	330	8	10.5	850	0.16	0.12	500
	390	8	10.5	850	0.16	0.12	500
	470	10	10.5	1190	0.08	0.12	500
	560	10	10.5	1190	0.08	0.12	500
	680	10	10.5	1190	0.08	0.12	500
50	10	4	5.7	85	2.6	0.10	2000
		5	5.7	165	1.18	0.10	1000
	22	5	5.7	165	1.18	0.10	1000
	47	6.3	5.7	195	0.74	0.10	1000
	100	6.3	7.7	350	0.40	0.10	1000
	220	8	10.5	670	0.24	0.10	500
	330	10	10.5	900	0.18	0.10	500

① Rated ripple current (100kHz / +105℃) ② Impedance (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

④ For plastic reel packaging , the Part Number is appended with "PR" at the end.

※Please refer to the page of reflow conditions for reflow profile.

Note：Alldesignand specification are for reference only and is subject to change without priornotice.If any doubt about safety for your application，please contact KNSCHA immediately for technical assistancebe for epurchase
备注：以上所提供的设计及特性参数仅供参考，任何修改不作预先通知。如果在使用上有疑问，请再购买前与科尼盛联系，以便我们提供技术上的服务和协助。