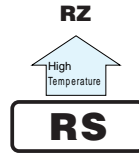


RS Compact & Low-profile Sized series



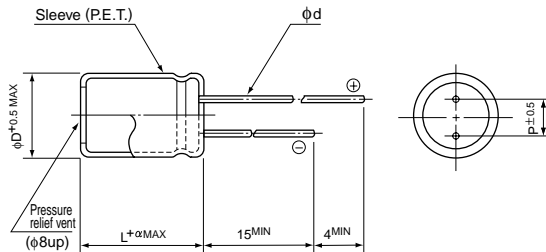
- More compact & low profile case sizes than VS series.



Specifications

Item	Performance Characteristics													
Category Temperature Range	-40 ~ +85°C													
Rated Voltage Range	6.3 ~ 400V													
Rated Capacitance Range	0.1 ~ 10000μF													
Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current	Rated voltage (V)	6.3 ~ 100												
		160 ~ 400												
		After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (μA), whichever is greater. After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.												
		After 1 minute's application of rated voltage. I = 0.04CV+100 (μA) or less												
tan δ	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. Measurement frequency : 120Hz, Temperature : 20°C													
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	400	
tan δ (MAX.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.20	0.20	0.25		
Stability at Low Temperature	Measurement frequency : 120Hz													
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	400	
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	5	4	3	2	2	2	2	2	3	3	3	6
		Z-40°C / Z+20°C	12	10	8	5	4	3	3	3	4	4	6	10
Endurance	After 2000 hours' application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.		Capacitance change	Within ±20% of initial value										
			tan δ	200% or less of initial specified value										
			Leakage current	Initial specified value or less										
Shelf Life	After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for endurance characteristics listed above.													
Marking	Printed with white color letter on black sleeve.													

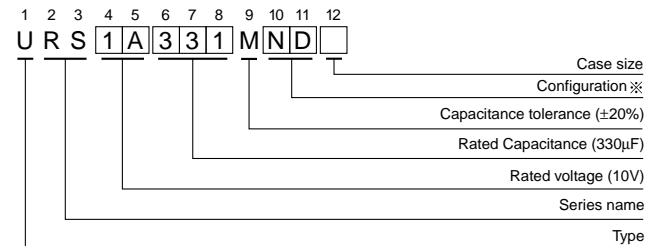
Radial Lead Type



φD	5	6.3	8	10	12.5	16	18	20
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0

α	(φD < 20) 1.5
	(φD ≥ 20) 2.0

Type numbering system (Example : 10V 330μF)



※ Configuration

φ D	Pb free lead finishing Pb free PET sleeve	Sn-Pb lead finishing PVC sleeve contain Pb
5 - 6.3	CD	CA
8, 10 × 9	ND	NA
10 × 12.5	PD	PA
12.5 ~ 18	HD	HA
20	RD	RA

※ Please contact to us if other configurations are required.

Please refer to page 19, 20, 21 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.

• Dimension table in next page.



■ Dimensions

D × L (mm)

Cap.(μF)	Code	V		6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H			
0.1	0R1													5 × 9	1.1
0.22	R22													5 × 9	2.3
0.33	R33													5 × 9	3.5
0.47	R47													5 × 9	5
1	010													5 × 9	13
2.2	2R2													5 × 9	26
3.3	3R3													5 × 9	35
4.7	4R7								5 × 9	30	5 × 9	35		5 × 9	40
10	100							5 × 9	40	5 × 9	50	5 × 9	55	5 × 9	65
22	220	5 × 9	35	5 × 9	55	5 × 9	70	5 × 9	75	5 × 9	95	5 × 9	95	5 × 9	90
33	330	5 × 9	55	5 × 9	75	5 × 9	85	5 × 9	95	5 × 9	100	6.3 × 9	100	6.3 × 9	120
47	470	5 × 9	75	5 × 9	90	5 × 9	100	5 × 9	110	6.3 × 9	130	6.3 × 9	130	6.3 × 9	140
100	101	5 × 9	125	5 × 9	135	6.3 × 9	160	6.3 × 9	180	8 × 9	220	10 × 9	220	10 × 9	240
220	221	6.3 × 9	200	6.3 × 9	220	8 × 9	290	10 × 9	310	10 × 9	340	10 × 12.5	340	10 × 12.5	420
330	331	6.3 × 9	250	8 × 9	300	10 × 9	360	10 × 9	380	10 × 12.5	480	12.5 × 12.5	480	12.5 × 12.5	530
470	471	8 × 9	330	8 × 9	360	10 × 9	410	10 × 12.5	530	12.5 × 12.5	590	16 × 15	590	16 × 15	750
1000	102	10 × 9	510	10 × 12.5	620	12.5 × 12.5	720	12.5 × 15	830	16 × 15	1010	18 × 20	1010	18 × 20	1160
2200	222	12.5 × 15	890	12.5 × 15	960	16 × 15	1160	18 × 15	1360	18 × 20	1560	20 × 25	1560	20 × 25	1750
3300	332	16 × 15	1200	16 × 15	1300	18 × 15	1460	18 × 20	1720	20 × 25	2000		2000		
4700	472	16 × 15	1410	18 × 15	1550	18 × 20	1770	18 × 25	2050						
6800	682	18 × 15	1660	18 × 20	1850	18 × 25	2170								
10000	103	18 × 20	2020	18 × 25	2350									Case size	Rated ripple

Cap.(μF)	Code	V		63		100		160		200		250		400	
		1J		2A		2C		2D		2E		2G			
0.1	0R1			5 × 9	1.9										
0.22	R22			5 × 9	4.5										
0.33	R33			5 × 9	6.5										
0.47	R47			5 × 9	8										
1	010			5 × 9	17										
2.2	2R2			5 × 9	26										
3.3	3R3			5 × 9	35										
4.7	4R7			6.3 × 9	45										
10	100	5 × 9	60	6.3 × 9	70									16 × 15	140
22	220	6.3 × 9	100	8 × 9	130						16 × 15	280	● 18 × 15	280	280
33	330	8 × 9	140	10 × 9	180				16 × 15	350	● 18 × 15	350	● 18 × 20	350	350
47	470	8 × 9	170	10 × 12.5	230	16 × 15	420	● 18 × 15	420	Δ 18 × 20	420	★ 18 × 25	420	★ 18 × 25	420
68	680					● 18 × 15	490	Δ 18 × 20	490	18 × 20	490	20 × 25	490	20 × 25	490
100	101	10 × 9	250	12.5 × 15	370	Δ 18 × 20	590	★ 18 × 25	590	18 × 25	590				
150	151					★ 18 × 25	710	18 × 25	710						
220	221	12.5 × 12.5	490	16 × 15	620	20 × 25	770								
330	331	12.5 × 15	710	18 × 15	760										
470	471	16 × 15	900											Case size	Rated ripple

Rated Ripple (mA rms) at 85°C 120Hz

Size 16 × 20 is available for capacitors marked " ● "
 Size 20 × 15 is available for capacitors marked " Δ "
 Size 20 × 20 is available for capacitors marked " ★ "

● Frequency coefficient of rated ripple current

V	Cap.(μF)	Frequency				
		50Hz	120Hz	300Hz	1 kHz	10 kHz ~
6.3 ~ 100	~ 47	0.75	1.00	1.35	1.57	2.00
	100 ~ 470	0.80	1.00	1.23	1.34	1.50
	1000 ~	0.85	1.00	1.10	1.13	1.15
160 ~ 400	10 ~ 220	0.80	1.00	1.25	1.40	1.60

In this case, [6] will be put at 12th digit of type numbering system.