

# RVL Series

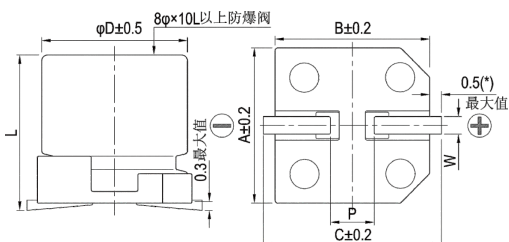
- Available for reflow soldering. Available for high density surface mounting.
- High stability and reliability. Load life 5,000 hours at 105°C
- Adapter to the RoHS. REACH directive.



## SPECIFICATIONS

Item	Performance Characteristics
Category Temperature Range	-55 ~ +105°C
Working Voltage Range	6.3 ~ 50Vdc
Capacitance Range	33 ~ 1000 μF
Capacitance Tolerance	±20% (at 20°C and 120Hz)
Dissipation Factor (tanδ) (at 20°C, 120Hz)	Rated Voltage (V)    6.3    10    16    25    35    50
	Tanδ(Max)            0.30   0.24   0.20   0.16   0.14   0.14
Leakage Current	I=0.01CV or 3 μA, whichever is greater I : Leakage current (μA)    C : Rated capacitance (μF)    V : Rated voltage (V)    Impress the rated voltage for 2 minutes
Low Temperature Characteristics Impedance Ratio(MAX)	Rated voltage (V)    6.3    10    16    25    35    50
	Z(-25°C)/Z(+20°C)    4    3    2    2    2    2
	Z(-55°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 subjected to DC voltage with the rated ripple current is applied for 5,000 hours at 105°C.
	Capacitance change                    ≙ ±35% of the initial value
	Dissipation factor(tanδ)                ≙ 300% of the specified value
	Leakage current                         ≙ specified value
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied.
	Capacitance change                    ≙ ±30% of the initial value
	Dissipation factor(tanδ)                ≙ 300% of the specified value
	Leakage current                         ≙ 500% of the specified value
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After reflow soldering and restored at room temperature, they meet the characteristics requirements listed below.
	Capacitance change                    ≙ ±10% of the initial value
	Dissipation factor(tanδ)                ≙ specified value
	Leakage current                         ≙ specified value

## DIMENSIONS (mm)

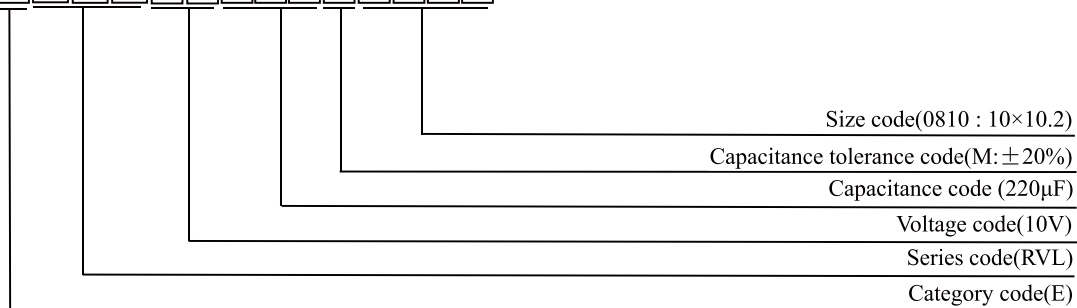


Note:(\*):4-6.3 Φ 0.4Max

ΦD	L	A	B	C	W	P±0.2
8	6.5±0.5	8.3	8.3	9.1	0.8~1.1	3.1
8	10.2±0.5	8.3	8.3	9.1	0.8~1.1	3.1
10	10.2±0.5	10.3	10.3	11.1	0.8~1.1	4.5

## PART NUMBER SYSTEM( Example : 10V 220μF )

E R V L 1 A 2 2 1 M 0 8 1 0



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◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz

Vdc μF	6.3V		10V		16V		25V		35V		50V	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
33											8×10.2	70
47									8×10.2	92	8×10.2	92
100							8×10.2	116	10×10.2	151	10×10.2	151
220			8×10.2	140	10×10.2	190	10×10.2	210	10×10.2	300		
330	8×10.2	290	10×10.2	290	10×10.2	290	10×10.2	320				
470	8×10.2	290	10×10.2	320	10×10.2	320						
1000	10×10.2	320										

◆ **RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Vdc	Frequency (Hz)				
	50Hz	120Hz	300Hz	1KHz	≥10KHz
6.3 ~ 50	0.70	1.00	1.20	1.30	1.40