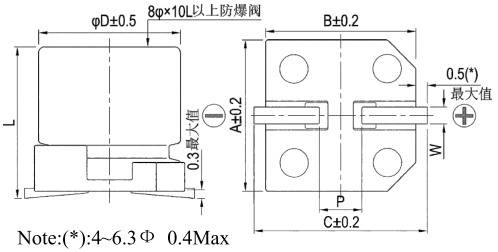
RVH Series

- **Available for reflow soldering. Available for high density surface mounting.**
- **High stability and reliability.Load life 2,000 hours at 125℃**
- **Adapter to the RoHS. REACH directive.**

◆ SPECIFICATIONS

Item	Performance Characteristics
Category Temperature Range	-40 ~ +125℃
Working Voltage Range	6.3 ~ 50Vdc
Capacitance Range	10 ~ 470 μF
Capacitance Tolerance	±20% (at 20℃ and 120Hz)
Dissipation Factor (tanδ) (at 20℃, 120Hz)	Rated Voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 Tanδ(Max): 0.26 / 0.24 / 0.20 / 0.18 / 0.16 / 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℃)/Z(+20℃): 4 / 3 / 2 / 2 / 2 / 2 Z(-55℃)/Z(+20℃): 12 / 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 2,000 hours at 125°C. Capacitance change: ≦ ±30% 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℃ after the rated voltage applied for 1,000 hours at 125℃ 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℃ 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:(*):4~6.3Φ 0.4Max

ΦD	L	A	B	C	W	P±0.2
6.3	7.7±0.5	6.6	6.6	7.2	0.5~ 0.8	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 : 50V 10μF)

E	R	V	H	1	H	1	0	0	M	0	6	0	7

Size code(0607 : 6.3×7.7)
Capacitance tolerance code(M:±20%)
Capacitance code (10μF)
Voltage code(50V)
Series code(RVH)
Category code(E)

RVH Series

◆ **Case size & Permissible rated ripple current: (mA rms) at 125℃ / 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
10											6.3×7.7	25
22											6.3×7.7	50
33									6.3×7.7	53	8×10.2	74
47							6.3×7.7	56	8×10.2	79	10×10.2	94
100	6.3×7.7	60	6.3×7.7	62	8×10.2	84	8×10.2	89	10×10.2	101		
220	8×10.2	90	8×10.2	93	10×10.2	118	10×10.2	124				
330	8×10.2	110	10×10.2	118								
470	10×10.2	130										

◆ **RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Vdc	Frequency (Hz)				
	50Hz	120Hz	300Hz	1KHz	≥10KHz
6.3 ~ 50	0.72	1.00	1.17	1.36	1.50