VH Series

Features

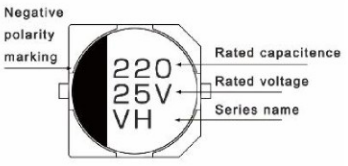
- 125℃ High temperature range, Low Impedance ,Load life 1000~2000 hours
- Designed for reflow soldering
- Designed for surface mounting on high density PC board
- Suitable for automotive equipment
- Compliant to the RoHS directive
- 125℃耐高温、低阻抗品，寿命1000~2000小时
- 适合回流焊
- 专为高密度PC板表面安装而设计
- 适用于汽车电子装备
- RoHS指令对策品

Marking color：Black

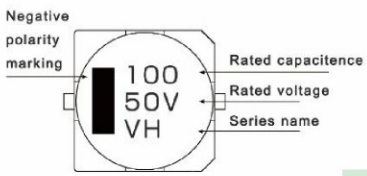
Specifications							
Category temp. range	–40℃ to +125℃						
Capacitance tolerance	±20% (120 Hz / +20 ℃)						
Leakage current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)						
Tan δ	Please see the attached characteristics list						
Characteristics at low temperature(Impedance ratio at 120 Hz)	Rated voltage (V)	10	16	25	35	50	63
	Z (-25 ℃) / Z (+20 ℃)	6	5	4	3	3	3
	Z (-40 ℃) / Z (+20 ℃)	12	8	6	4	4	4
Endurance	After applying rated working voltage for 1000/2000 hours at +125 ℃ ± 2 ℃, and then being stabilized at +20 ℃ , capacitors shall meet the following limits.						
	Test Time	φD ≦ 8x6.5mm : 1000H , φD ≧ 8mm : 2000H					
	Capacitance change	Within ±30% of the initial value					
	Dissipation factor (tan δ)	Less than 300% of the initial value					
	Leakage current	Within the initial limit					
Shelf life	After storage for 1000 h at +125 ℃ ± 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 ≦ 330μF	0.7	1.0	1.2	1.3		
	C > 330μF	0.8	1.0	1.1	1.2		

Marking：

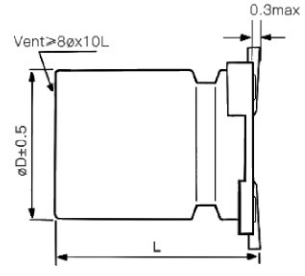
φD ≦ 10mm

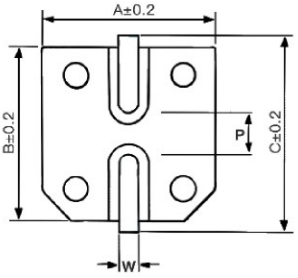


φD ≧ 12.5mm



Dimensions：





Dimensions　Unit：mm

φD	L	A	B	C	W	P±0.2
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
12.5	13.5±0.5	13.0	13.0	14.0	1.0~1.4	4.4

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification		Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	tan δ②	MPQ (pcs/reel)
10	47	6.3	5.7	50	0.32	1000
	100	8	6.5	75	0.32	1000
	220	8	10.5	130	0.32	500
	330	8	10.5	130	0.32	500
	470	12.5	13.5	480	0.32	200
	680	12.5	13.5	480	0.32	200
16	33	6.3	5.7	50	0.24	1000
	47	6.3	7.7	70	0.24	1000
	100	8	6.5	75	0.24	1000
	220	10	10.5	180	0.24	500
	330	12.5	13.5	480	0.24	200
	470	12.5	13.5	480	0.24	200
	680	12.5	13.5	480	0.24	200
25	33	6.3	5.7	50	0.21	1000
	47	6.3	7.7	70	0.21	1000
	100	8	10.5	130	0.21	500
	220	10	10.5	180	0.21	500
	330	12.5	13.5	480	0.21	200
	470	12.5	13.5	480	0.21	200
35	22	6.3	5.7	50	0.18	1000
	33	6.3	7.7	70	0.18	1000
	47	8	6.5	75	0.18	1000
	100	10	10.5	180	0.18	500
	220	12.5	13.5	357	0.18	200
50	22	8	6.5	75	0.15	1000
	33	8	10.5	130	0.15	500
	47	8	10.5	130	0.15	500
	100	12.5	13.5	357	0.15	200
63	10	8	6.5	60	0.15	1000
	22	8	10.5	100	0.15	500
	33	10	10.5	150	0.15	500
	47	10	10.5	150	0.15	500
	100	12.5	13.5	300	0.15	200

① Rated ripple current (120Hz / +125℃) ② tan δ (120Hz / +20℃) ③ 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。