VXH

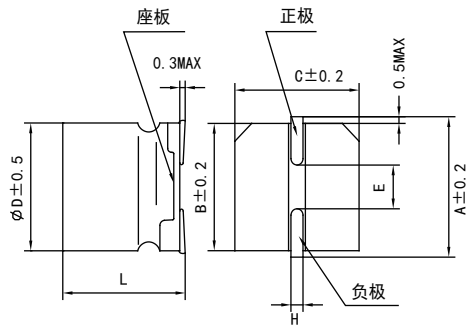
特点 Features

- 保证105℃ 5000~10000小时。Endurance 5000~10000h at 105℃.
- 额定电压范围：6.3~50V。Rated Voltage Range:6.3~50V.
- 低阻抗、超长寿命品。Low ESR , Super Long life Type.
- 满足RoHS。RoHS Compliant.
- 满足AEC-Q200认证。AEC-Q200 Compliant.

主要技术性能 Specifications

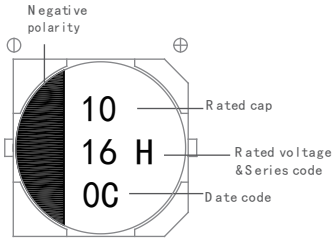
项目 Items	特性 Performance Characteristics	
类别温度范围 Category Temperature Range	-40~+105℃	
额定电压范围 Rated Voltage(U_R)	6.3 ~ 50V	
标称电容量范围 Nominal Capacitance Range(C_R)	4.7 ~470μF	120Hz,+20℃
标称电容量允许偏差 Allowed Capacitance Tolerance(C_T)	±20%(M)	120Hz,+20℃
漏电流 Leakage Current(I_L)	≤0.01$C_R U_R$或者3μA取较大值（Whichever is greater）	+20℃ After 2 minutes
损耗角正切值 Tangent of loss angle(Tanδ)	U_R(V): 6.3 / 10 / 16 / 25 / 35 / 50 Tanδ: 0.32 / 0.28 / 0.26 / 0.16 / 0.14 / 0.14	Max. 120Hz, +20℃
低温特性 Characteristics at Low Temperature	U_R (V): 6.3 / 10 / 16 / 25 / 35 / 50 $Z_{-40℃}$ / $Z_{+20℃}$: 7 / 5 / 4 / 4 / 3 / 3	Max. 120Hz
耐久性 Load Life	+105℃施加额定电压后，电容器应满足以下要求： Application of rated voltage at 105℃, the capacitor shall meet the following requirement:	
	规定时间 Specified time	Φ5*5.8，Φ6.3*5.8，Φ6.3*7.7：5000小时 Φ5*7.0，Φ6.3*7.0，Φ6.3*8.7：7000小时 Φ8*10.5，Φ10*10.5：10000小时
	电容量变化率 Capacitance Change	±30%初始值以内 Within ±30% of the initial value
	损耗角正切值 Tanδ	≤300%初始规定值 Not more than 300% of specified value
	漏电流 Leakage Current	≤ 初始规定值 Not more than specified value
高温贮存 Shelf Life	+105℃，1000小时贮存后,恢复16小时后： After storage for 1000 hours at +105℃ and then recovery 16 hours:	
	电容量变化率 Capacitance Change	±30%初始值以内 Within ±30% of the initial value
	损耗角正切值 Tanδ	≤ 300%初始规定值 Not more than 300% of specified value
	漏电流 Leakage Current	≤ 初始规定值 Not more than specified value
耐焊接热 Resistance to Soldering Heat	在250℃的条件下，电容器在热板上保持30秒，然后从热板上取出电容器，让其在室温下恢复，电容器应满足以下要求： The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement.	
	电容量变化率 Capacitance Change	±10%初始值以内 Within ±10% of the initial value
	损耗角正切值 Tanδ	≤初始规定值 Not more than specified value
	漏电流 Leakage Current	≤ 初始规定值 Not more than specified value

尺寸图 Dimensional drawings

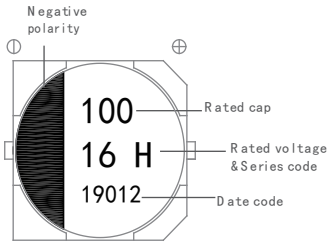


Marking

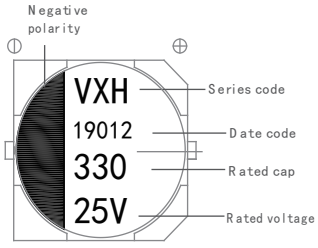
ΦD=5mm



ΦD=6.3mm



ΦD=8～10.2mm



尺寸表 size table

单位 Unit: mm

ΦD	L	A	B	C	E±0.2	H
5	5.8±0.3	6.0	5.3	5.3	1.3	0.5～0.8
5	7.0±0.3	6.0	5.3	5.3	1.3	
6.3	5.8±0.3	7.3	6.6	6.6	2.2	
6.3	7.0±0.3	7.3	6.6	6.6	2.2	
6.3	7.7±0.3	7.3	6.3	6.3	2.2	
6.3	8.7±0.3	7.3	6.3	6.3	2.2	
8	6.5±0.5	8.9	8.3	8.3	2.3	
8	10.5±0.5	9.0	8.3	8.3	3.1	0.8～1.1
10	10.5±0.5	11.0	10.3	10.3	4.5	

规格特性表
Table of specifications and characteristics

U_R(V) / C_R (μF)	6.3V			10V			16V			25V			35V		
	ΦDxL mm*mm	$I_{AC,R}$ 100KHz 105℃ mA	ESR_{max} 100KHz 25℃ Ω	ΦDxL mm*mm	$I_{AC,R}$ 100KHz 105℃ mA	ESR_{max} 100KHz 25℃ Ω	ΦDxL mm*mm	$I_{AC,R}$ 100KHz 105℃ mA	ESR_{max} 100KHz 25℃ Ω	ΦDxL mm*mm	$I_{AC,R}$ 100KHz 105℃ mA	ESR_{max} 100KHz 25℃ Ω	ΦDxL mm*mm	$I_{AC,R}$ 100KHz 105℃ mA	ESR_{max} 100KHz 25℃ Ω
10							5*5.8	95	1.5	5*5.8	95	2.2	5*7.0	95	2.2
22				5*5.8	95	1.5	5*7.0	95	2.2	5*7.0	95	2.2	6.3*7.0	140	1.1
33	5*5.8	95	1.5	5*7.0	95	2.2	6.3*5.8	120	1.0	6.3*7.0	140	1.1	6.3*8.7	230	1.0
47	5*7.0	95	2.2	6.3*5.8	120	1.0	6.3*7.0	140	1.1	6.3*7.0	140	1.1	6.3*8.7	230	1.0
100	6.3*7.0	140	1.1	6.3*5.8	120	1.0	6.3*7.0	140	1.1	6.3*8.7	230	1.0	8*10.5	600	0.22
150	6.3*7.7	210	1.0	6.3*7.0	140	1.1	6.3*8.7	230	1.0	8*10.5	600	0.22	10*10.5	850	0.16
220	6.3*8.7	230	1.0	6.3*7.7	210	1.0	6.3*8.7	230	1.0	8*10.5	600	0.22	10*10.5	850	0.16
330	6.3*8.7	230	1.0	8*10.5	600	0.22	8*10.5	600	0.22	10*10.5	850	0.16			
470	8*10.5	600	0.22	10*10.5	850	0.16	10*10.5	850	0.16						

U_R(V) / C_R (μF)	50V		
	ΦDxL mm*mm	$I_{AC,R}$ 100KHz 105℃ mA	ESR_{max} 100KHz 25℃ Ω
4.7	5*5.8	45	2.0
10	6.3*5.8	75	1.6
22	6.3*7.7	130	0.9
47	8*10.5	350	0.53
100	10*10.5	670	0.35

额定纹波电流的频率系数
Frequency coefficient of ripple current

Frequency(Hz) / C_R (μF)	120	1K	10K	100K
4.7-150	0.40	0.75	0.90	1.0
220-470	0.50	0.85	0.94	1.0