

» Disc Type High Voltage Ceramic Capacitors

概述 OUTLINE

圆板型中高压陶瓷电容器分为Ⅰ类高频低损品、Ⅱ类高介电常数品、Ⅱ类高介低损品三类，分别适应不同的设计需求。采用高可靠性介质芯片、小型化设计，引线结构，树脂封装，确保制品的高可靠性。

Disc type high-voltage ceramic capacitors are divided into Class high-frequency low-loss products and Class Ⅱ high-dielectric constant products and Class Ⅱ high-dielectric constant low-loss products, to meet the different requirement of application. The capacitors are used in high-quality dielectric material and epoxy resin coating, as well as the small size and radial lead type structure ensure high reliability.

品名构成说明 Part Name

[e.g]	HCT	81	B	3A	102	K	S	5	6	A
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

① 电容器种类别(TYPE)

HCC: 高频低损品(Ⅰ类)

HCT: 高介电常数品(Ⅱ类)

HCR: 高介低损品(Ⅱ类)

HCC: Low Dissipation Factor (Class I)

HCT: High Dielectric Constant Type (Class II)

HCR: Low Dissipation Factor (Class II)

② 形状(TYPE)

81:圆片型 DISC TYPE

③ 温度特性(Code of temperature characteristics)

代码 CODE	温度特性 Temp.Charat	容量变化率 Capacitance Change	温度范围 Temperature Range
C	CH	0±60ppm/°C	-25~85°C
S	SL	+350~-1000ppm/°C	
R	Y5R	±15%	
B	Y5P	±10%	
E	Y5U	+22%~-56%	
F	Y5V	+22%~-82%	

④ 额定电压(Rated Voltage)

代码 CODE	额定电压 Rated Voltage
3A	DC 1KV
3D	DC 2KV
3F	DC 3KV
3G	DC 4KV
3J	DC 6KV

⑤ 公称静电容量 (Nominal Capacitance Unit : pF)

三数字法：前二位数字表示有效值，第三位数字表示“0”的个数。小数点用“R”表示。

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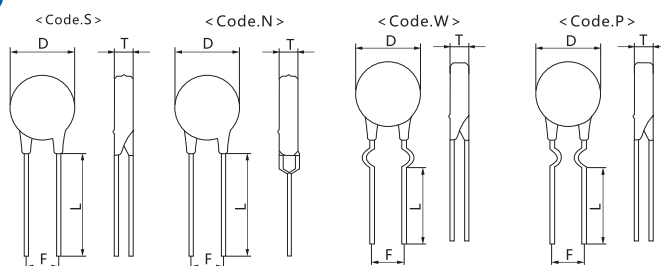
Expressed by three figures. The first and the second figures are significant digits, and the third figure denotes the number of zeros. "R" is used to denote the decimal point.

[e.g.] 1R5:1.5pF 030 : 3 pF 102:1,000pF

⑥ 静电容量公差(Code of Capacitance Tolerance)

代码 CODE	许容差 Capacitance Tolerance	代码 CODE	许容差 Capacitance Tolerance
C	± 0.25 pF	K	$\pm 10\%$
D	± 0.50 pF	M	$\pm 20\%$
J	$\pm 5\%$	Z	-20%~+80%

⑦ 引脚形状(Lead Style)



代码 CODE	引脚形状 Lead Style	备注 Note
S	直脚导线型 Straight Lead	见上图
N	侧弯导线型 Vertical Crimped	
W	外弯导线型 Outer crimped	
P	内弯导线型 Inner crimped	

⑧ 引脚间距(Lead Spacing)

代码 CODE	5	7	1
引脚间距 Lead Spacing (mm)	5.0 ± 0.5	7.5 ± 0.5	10 ± 0.5

⑨ 引脚长度(Lead length)

代码 CODE	L寸法尺寸 L Size (mm)	代码 CODE	L寸法尺寸 L Size (mm)
2	3.5 ± 0.5	9	> 17.0
4	5.0 ± 0.5	0	编带品 Taping
6	7.5 ± 0.5		

⑩ 设计管理序号(Design Code)

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高频低损品

特点：

- ☐ 温度特性SL(+350,-1000ppm/°C),Q值高,高频损失小,自发热温度低
- ☐ 额定电压1KV,2KV,3KV,6KV;介电强度高,过压能力强小型化设计,引线结构,树脂封装,具有良好的抗振动性和防潮湿能力
- ☐ 蓝色环氧树脂封装,具有高阻燃性符合UL-94V-0标准
- ☐ 符合RoHS指令要求

应用：

用于电子线路中作谐振、高压电路耦合、高频杂波吸收等用途,如报警器谐振电路、LCD背光电路、电视/监视器水平输出电路、开关电源电路。

HCC TYPE - Low Dissipation Factor (CLASS I) FEATURES :

- ☐ Temperature characteristics SL(+350, -100ppm/°C) has high Q value and low-loss at high frequency and low self-heating.
- ☐ Rated Voltage 1KV,2KV,3KV,6KV and high breakdown voltage. Small size and lead type and resin coating ensure excellent anti-vibration and humidity resistivity
- ☐ Coated with flame-retardant blue epoxy resin confirming to UL-94V-0 standard.
- ☐ Confirming to RoHS Directives.

APPLICATIONS :

Used in electronic circuits for resonant, high-voltage circuit-coupled, high-frequency surge absorption, such as alarm resonant circuits, LCD backup lighting circuit, CRT color TV or monitor horizontal output circuits, switching power supply circuit.

品名规格 Part number and characteristics

温度特性 SL(Temperature characteristics:SL)

品名 Part number	静电容量 Nominal Capacitance (pF)	尺寸 Size(mm)											
		1KV			2KV			3KV			6KV		
		D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)
HCC81S□030C□□	3	6.0	5.0	4.0	6.0	5.0	5.0	6.0	7.5	6.0	7.0	10	7.0
HCC81S□050D□□	5	6.0	5.0	4.0	6.0	5.0	5.0	6.0	7.5	6.0	7.0	10	7.0
HCC81S□080D□□	8	6.0	5.0	4.0	6.0	5.0	5.0	6.0	7.5	6.0	7.0	10	7.0
HCC81S□100D□□	10	6.0	5.0	4.0	6.0	5.0	5.0	6.0	7.5	6.0	7.0	10	7.0
HCC81S□120J□□	12	6.0	5.0	4.0	6.0	5.0	5.0	6.0	7.5	6.0	7.5	10	7.0
HCC81S□150J□□	15	6.0	5.0	4.0	6.0	5.0	5.0	6.0	7.5	6.0	8.0	10	7.0
HCC81S□180J□□	18	6.0	5.0	4.0	6.0	5.0	5.0	6.0	7.5	6.0	8.5	10	7.0
HCC81S□220J□□	22	6.0	5.0	4.0	6.0	5.0	5.0	6.0	7.5	6.0	9.0	10	7.0
HCC81S□270J□□	27	6.0	5.0	4.0	6.0	5.0	5.0	6.0	7.5	6.0	9.5	10	7.0
HCC81S□330J□□	33	6.0	5.0	4.0	6.0	5.0	5.0	6.5	7.5	6.0	11	10	7.0
HCC81S□390J□□	39	6.0	5.0	4.0	6.0	5.0	5.0	6.5	7.5	6.0	12	10	7.0
HCC81S□470J□□	47	6.0	5.0	4.0	6.0	5.0	5.0	7.0	7.5	6.0	12	10	7.0
HCC81S□560J□□	56	6.0	5.0	4.0	6.5	5.0	5.0	7.5	7.5	6.0	12	10	7.0

注：

- ☐ 引脚间距代码(Lead Spacing)
- ☐ 引脚形状代码(Lead Style)
- ☐ 3A/3D/3F/3J(额定电压:Rated Voltage 1KV/2KV/3KV/6KV)

» Disc Type High Voltage Ceramic Capacitors

品名规格 Part number and characteristics

温度特性 SL(Temperature characteristics:SL)

品名 Part number	静电容量 Nominal Capacitance (pF)	尺寸 Size(mm)											
		1KV			2KV			3KV			6KV		
		D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)
HCC81S□680J□□	68	6.0	5.0	4.0	7.0	5.0	5.0	8.0	7.5	6.0	13	10	7.0
HCC81S□820J□□	82	6.0	5.0	4.0	7.5	5.0	5.0	8.5	7.5	6.0	14	10	7.0
HCC81S□101J□□	100	7.0	5.0	4.0	8.0	5.0	5.0	9.0	7.5	6.0	15	10	7.0
HCC81S□121J□□	120	7.5	5.0	4.0	8.5	5.0	5.0	10	7.5	6.0			
HCC81S□151J□□	150	8.0	5.0	4.0	9.0	5.0	5.0	11	7.5	6.0			
HCC81S□181J□□	180	8.5	5.0	4.0	9.5	5.0	5.0	12	7.5	6.0			
HCC81S□221J□□	220	9.0	5.0	4.0	11	5.0	5.0	13	7.5	6.0			
HCC81S□271J□□	270	9.5	5.0	4.0	12	5.0	5.0	14	7.5	6.0			
HCC81S□331J□□	330	11	5.0	4.0	12	5.0	5.0	15	7.5	6.0			
HCC81S□391J□□	390	11	5.0	4.0	13	5.0	5.0	16	10	6.0			
HCC81S□471J□□	470	12	5.0	4.0	14	5.0	5.0	17	10	6.0			
HCC81S□561J□□	560	13	5.0	4.0	15	7.5	5.0						
HCC81S□681J□□	680	14	5.0	4.0	17	7.5	5.0						
HCC81S□821J□□	820	15	5.0	4.0									
HCC81S□102J□□	1000	17	5.0	4.0									

注：

□ 引脚间距代码(Lead Spacing)

○ 引脚形状代码(Lead Style)

□ 3A/3D/3F/3J(额定电压:Rated Voltage 1KV/2KV/3KV/6KV)

» Disc Type High Voltage Ceramic Capacitors

高介电常数品

特点：

温度特性B,容量稳定性高,适应需较大容量且容量稳定的电路设计要求。

额定电压1KV,2KV,3KV;介电强度高,过压能力强小型化设计,引线结构,树脂封装,具有良好的抗振动性和防潮湿能力。

蓝色环氧树脂封装,具有高阻燃性符合UL-94V-0标准符合RoHS指令要求。

HCT TYPE - High Dielectric Constant(CLASS II)

FEATURES :

Temperature characteristics B($\pm 10\%$, $-25\sim +85^{\circ}\text{C}$) is stable in capacitance, and is used in circuit requiring large and stable capacitance.

Rated Voltage 1KV,2KV,3KV, and high breakdown voltage Small size and lead type and resin coating ensure excellent anti-vibration and humidity resistivity.

Coated with flame-retardant blue epoxy resin confirming to UL-94V-0 standard.

Confirming to RoHS Directives.

应用：

用于高压电子电路的耦合、旁路、滤波,等用途,如开关电源电路、电源模块电路、节能灯镇流器

APPLICATIONS :

Used in electronic circuits for coupling, by-pass, filtering such as switching power supply circuit, power modules and ballast.

品名规格 Part number and characteristics

温度特性 B(Temperature characteristics:B)

品名 Part number	静电容量 Nominal Capacitance (pF)	尺寸 Size(mm)								
		1KV			2KV			3KV		
		D(max)	F ± 0.5	T(max)	D(max)	F ± 0.5	T(max)	D(max)	F ± 0.5	T(max)
HCT81B□101K□□	100	6.0	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81B□121K□□	120	6.0	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81B□151K□□	150	6.0	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81B□181K□□	180	6.0	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81B□221K□□	220	6.0	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81B□271K□□	270	6.0	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81B□331K□□	330	6.0	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81B□391K□□	390	6.0	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81B□471K□□	470	6.0	5.0	4.0	8.0	5.0	5.0	8.5	7.5	6.0
HCT81B□561K□□	560	6.0	5.0	4.0	8.0	5.0	5.0	9.0	7.5	6.0
HCT81B□681K□□	680	6.0	5.0	4.0	8.5	5.0	5.0	9.0	7.5	6.0
HCT81B□821K□□	820	6.5	5.0	4.0	9.0	5.0	5.0	9.5	7.5	6.0
HCT81B□102K□□	1000	6.5	5.0	4.0	9.0	5.0	5.0	10.5	7.5	6.0

注：

- 引脚间距代码(Lead Spacing)
- 引脚形状代码(Lead Style)
- 3A/3D/3F(额定电压:Rated Voltage 1KV/2KV/3KV)

» Disc Type High Voltage Ceramic Capacitors

高介电常数品 HCT TYPE - High Dielectric Constant (CLASS II)

品名规格 Part number and characteristics

温度特性 B(Temperature characteristics:B)

品名 Part number	静电容量 Nominal Capacitance (pF)	尺寸 Size(mm)								
		1KV			2KV			3KV		
		D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)
HCT81B□122K□□	1200	7.0	5.0	4.0	9.5	5.0	5.0	11.0	7.5	6.0
HCT81B□152K□□	1500	7.5	5.0	4.0	10.5	7.5	5.0	12.0	10.0	6.0
HCT81B□182K□□	1800	8.0	5.0	4.0	11.5	7.5	5.0	13.0	10.0	6.0
HCT81B□222K□□	2200	9.0	5.0	4.0	12.5	7.5	5.0	14.0	10.0	6.0
HCT81B□272K□□	2700	9.5	5.0	4.0	13.5	10.0	5.0	15.5	10.0	6.0
HCT81B□332K□□	3300	10.0	5.0	4.0	14.5	10.0	5.0	17.0	10.0	6.0
HCT81B□392K□□	3900	10.5	7.5	4.0	15.0	10.0	5.0	18.0	10.0	6.0
HCT81B□472K□□	4700	11.5	7.5	4.0	17.0	10.0	5.0	19.5	10.0	6.0
HCT81B□562K□□	5600	12.5	7.5	4.0						
HCT81B□682K□□	6800	13.5	7.5	4.0						
HCT81B□822K□□	8200	14.5	7.5	4.0						
HCT81B□103K□□	10000	15.5	10.0	4.0						

注： □ 引脚间距代码(Lead Spacing)
 ○ 引脚形状代码(Lead Style)
 □ 3A/3D/3F(额定电压:Rated Voltage 1KV/2KV/3KV)

品名规格 Part number and characteristics

温度特性E(Temperature characteristics:E)

品名 Part number	静电容量 Nominal Capacitance (pF)	尺寸 Size(mm)								
		1KV			2KV			3KV		
		D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)
HCT81E□102◇□□	1000	6.5	5.0	4.0	6.0	5.0	5.0	8.0	7.5	6.0
HCT81E□122◇□□	1200	6.5	5.0	4.0	6.5	5.0	5.0	8.5	7.5	6.0
HCT81E□152◇□□	1500	6.5	5.0	4.0	6.5	5.0	5.0	9.5	7.5	6.0
HCT81E□182◇□□	1800	6.5	5.0	4.0	8.0	5.0	5.0	10.0	7.5	6.0
HCT81E□222◇□□	2200	7.5	5.0	4.0	8.0	7.5	5.0	11.0	7.5	6.0
HCT81E□272◇□□	2700	8.0	5.0	4.0	9.0	7.5	5.0	12.0	7.5	6.0
HCT81E□332◇□□	3300	8.5	5.0	4.0	9.0	7.5	5.0	13.0	7.5	6.0
HCT81E□392◇□□	3900	9.0	5.0	4.0	9.5	7.5	5.0	14.0	7.5	6.0
HCT81E□472◇□□	4700	10.0	5.0	4.0	10.5	7.5	5.0	15.0	7.5	6.0
HCT81E□562◇□□	5600	11.0	5.0	4.0	12.0	10.0	5.0	16.0	10.0	6.0
HCT81E□682◇□□	6800	12.0	7.5	4.0	13.0	10.0	5.0	18.0	10.0	6.0
HCT81E□103◇□□	10000	13.0	7.5	4.0	15.0	10.0	5.0	20.0	10.0	6.0
HCT81E□223◇□□	22000	19.0	7.5	4.0						

» Disc Type High Voltage Ceramic Capacitors

高介电常数品 HCT TYPE - High Dielectric Constant (CLASS II)

温度特性F(Temperature characteristics:F)

品名 Part number	静电容量 Nominal Capacitance (pF)	尺寸 Size(mm)								
		1KV			2KV			3KV		
		D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)
HCT81F□102◇○□	1000	6.5	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81F□122◇○□	1200	6.5	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81F□152◇○□	1500	6.5	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81F□182◇○□	1800	6.5	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCT81F□222◇○□	2200	6.5	5.0	4.0	8.0	5.0	5.0	9.0	7.5	6.0
HCT81F□272◇○□	2700	6.5	5.0	4.0	9.0	7.5	5.0	10.0	7.5	6.0
HCT81F□332◇○□	3300	7.5	5.0	4.0	9.0	7.5	5.0	10.0	7.5	6.0
HCT81F□392◇○□	3900	7.5	5.0	4.0	9.0	7.5	5.0	10.0	7.5	6.0
HCT81F□472◇○□	4700	8.0	5.0	4.0	10.0	7.5	5.0	11.0	7.5	6.0
HCT81F□562◇○□	5600	8.5	5.0	4.0	11.0	7.5	5.0	13.0	10.0	6.0
HCT81F□682◇○□	6800	9.5	5.0	4.0	11.0	7.5	5.0	13.0	10.0	6.0
HCT81F□103◇○□	10000	10.0	7.5	4.0	13.0	10.0	5.0	15.0	10.0	6.0
HCT81F□223◇○□	22000	15.0	7.5	4.0	18.0	10.0	5.0	21.0	10.0	6.0

注：

- 引脚间距代码(Lead Spacing)
- 引脚形状代码(Lead Style)
- ◇ 静电容量公差(Code of Capacitance Tolerance)
- 3A/3D/3F(额定电压:Rated Voltage 1KV/2KV/3KV)

» Disc Type High Voltage Ceramic Capacitors

高介低损品 HCR TYPE - Low-Dissipation Factor(CLASS II)

特点：

温度特性R(-25~+85°C:±15%内),损耗系数:0.2%以下,高频低损失小,自发热温度低
 工作温度范围:-25~+125°C
 额定电压1KV,2KV,3KV;介电强度高,过压能力强
 小型化设计,引线结构,树脂封装,具有良好的抗振动性和防潮湿能力
 蓝色环氧树脂封装,具有高阻燃性符合UL-94V-0标准

FEATURES:

Temperature characteristics R(±15%,-25~+85°C) has low dissipation factor of 0.2% maximum at high frequency and low self-heating.
 Working temperature range -25~+125°C
 Rated Voltage 1KV,2KV,3KV; and high breakdown voltage
 Small size and lead type and resin coating ensure excellent anti-vibration and humidity resistivity
 Coated with flame-retardant blue epoxy resin confirming to UL-94V-0 standard.

应用：

用于高频高压电子线路中作高频杂波吸收,如电视机/监视器/开关电源

APPLICATIONS:

Used in high frequency electronic circuits for snap absorption such CRT color TV or monitor horizontal output circuits, switching power supply circuit

品名规格 Part number and characteristics

品名 Part number	静电容量 Nominal Capacitance (pF)	尺寸 Size(mm)								
		1KV			2KV			3KV		
		D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)	D(max)	F±0.5	T(max)
HCR81R□101K□□	100	6.5	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCR81R□121K□□	120	6.5	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCR81R□151K□□	150	6.5	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCR81R□181K□□	180	6.5	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCR81R□221K□□	220	6.5	5.0	4.0	7.5	5.0	5.0	8.0	7.5	6.0
HCR81R□271K□□	270	6.5	5.0	4.0	8.0	5.0	5.0	8.0	7.5	6.0
HCR81R□331K□□	330	6.5	5.0	4.0	8.5	5.0	5.0	9.0	7.5	6.0
HCR81R□391K□□	390	6.5	5.0	4.0	9.0	5.0	5.0	9.5	7.5	6.0
HCR81R□471K□□	470	7.0	5.0	4.0	9.0	5.0	5.0	10.0	7.5	6.0
HCR81R□561K□□	560	7.5	5.0	4.0	9.0	5.0	5.0	10.5	7.5	6.0
HCR81R□681K□□	680	8.0	5.0	4.0	10.0	5.0	5.0	11.0	7.5	6.0
HCR81R□821K□□	820	8.5	5.0	4.0	11.0	5.0	5.0	12.0	7.5	6.0
HCR81R□102K□□	1000	9.0	5.0	4.0	11.0	5.0	5.0	13.0	7.5	6.0
HCR81R□122K□□	1200	9.0	5.0	4.0	12.5	7.5	5.0	14.0	7.5	6.0
HCR81R□152K□□	1500	10.0	7.5	4.0	13.5	7.5	5.0	15.0	10.0	6.0
HCR81R□182K□□	1800	11.0	7.5	4.0	15.0	7.5	5.0	16.0	10.0	6.0
HCR81R□222K□□	2200	12.0	7.5	4.0	16.0	7.5	5.0	17.0	10.0	6.0
HCR81R□272K□□	2700	13.0	7.5	4.0	17.0	10.0	5.0	20.0	10.0	6.0
HCR81R□332K□□	3300	14.0	7.5	4.0	19.0	10.0	5.0	22.0	10.0	6.0
HCR81R□392K□□	3900	15.0	7.5	4.0	20.0	10.0	5.0			
HCR81R□472K□□	4700	16.0	7.5	4.0	22.0	10.0	5.0			

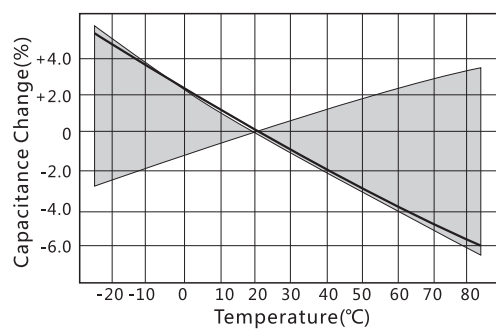
注：
 □ 引脚间距代码(Lead Spacing)
 ○ 引脚形状代码(Lead Style)
 □ 3A/3D/3F(额定电压:Rated Voltage 1KV/2KV/3KV)

» Disc Type High Voltage Ceramic Capacitors

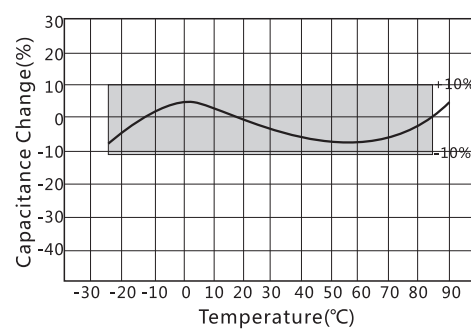
容量-温度特性 (Capacitance-Temperature characteristics)

特性参数(Rating and Characteristics)

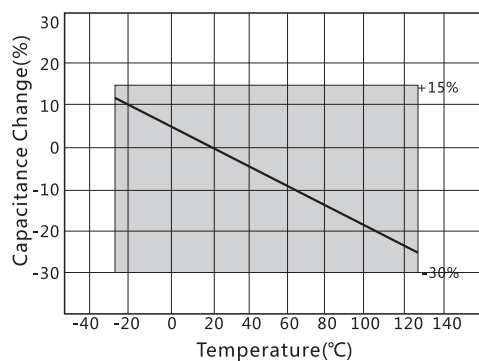
Char:SL



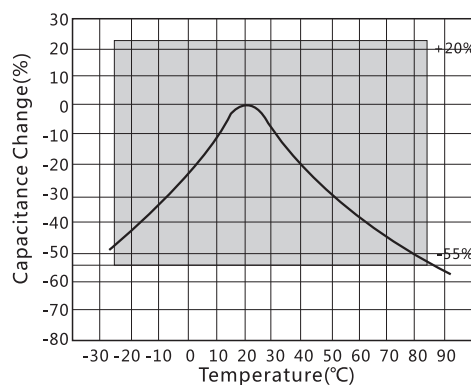
Char:B(Y5P)



Char:R(Y5R)



Char:E(Y5U)



Char:F(Y5V)

