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Dersonic。 圆板陶瓷电容器规格承认书	版本REV.:	A/0
APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS	日期DATE:	2019/3/12
	页码PAGE:	1 / 12

文件修改摘要 DOCUMENT MODIFICATION SUMMARY

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PPROVAL SPECIFICATION FOF	R DISC CERAMIC CAPACITORS	日期DATE:	2019/3/12
		页码PAGE:	2 / 12
目 录 CONENT			
1. 规格表 DATA SHEET			3
2. 总则 GENERAL			4
 适用标准 APPLICABLE STANDARD 			5
4. 产品结构 STRUCTURE			5
5. 特性 GENERAL SPECIFICATIONS			5
6. 产品编码 PART NUMBER			0
7. 测量和试验 MEASUREMENT AND TEST			7
8. 包装和储存 PACKAGING AND STORAGE			9
9. 测量和使用注意事项 MEASURING AND APPLICATIO	N NOTICE		10
10. 编带尺寸规格 TAPING SPECIFICATIONS			12

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	C 圆板陶瓷电容器表	别格承认书	版本REV.:	A/0		
APPROVAL	SPECIFICATION FOR DI	SC CERAMIC CAPACITORS	日期DATE:	2019/3/12		
			页码PAGE:	3 / 12		
1. 规格表 DATA SHEET	D 3.0mm max ed 直脚	D D D D D D D D D D D D D D D D D D D	D 5.0mm max ed F 平行脚	T		
	Straight lead	Inside kink lead Outside kink lead	/ertical kink lead			
	产品编码 Part number	CC3F332MD1IEF4	47J60MF			
	规格描述 Description	3KV/332/M/F7.5/直脚/L24/环氧(蓝)/Y5V(II)/7J/0MF				
	客户料号 Customer P/N					
	介质类别 Dielectric class	Class 2				
	额定电压 Rated voltage	3KVdc				
	电容量 Capacitance	3300pF ±20% @ 1kHz 1.0V 25°C				
	损耗角正切 Tangent of loss angle	0.035 max @ 1kHz 1.0V 25°C				
	耐电压 Testing voltage	4500Vdc (Charge/discharge 2mA max) 3s PASS				
	绝缘电阻 Insulation resistance	4 000M Ω min @ 500V 60s, RH \leq 70%				
	温度特性 Temperature characteristics	Υ5V(II) ΔC/C: +22/-82% @ -25℃~85℃				
	D (Diameter)	7mm+2.0/-0	.3mm			
	T (Thickness)	3.5mm±0.8	3mm			
尺寸	F (Lead spacing)	7.5mm±0.8	3mm			
DIMENSIONS	L (Lead length)	24mm±4.0	lmm			
	ød (Lead diameter)	0.6mm ma	ах			
	C (Coating rundown on leads)	3.0mm ma	ах			
	标志 Marking	⊕₩ 332 3KV				

	8				编号[DOC NO.:	DEC-SA-WIO	104
Dersoni	。 圆板陶瓷电容器	影规格承认书			版	〔本REV.:	A/0	
APPROVAL	SPECIFICATION FOR I	DISC CERAMIC CAPA	CITORS	6	日	期DATE:	2019/3/12	2
			页	码PAGE:	4 / 12			
This specificat voltage not ex 2) 高介电常数 高介电常数 Capacitor whi discriminating 该类陶瓷介 The ceramic d 表中用X表示的 ℃,不施加直刻 Table denotes wit	用于额定电压不超过直流 ion applies to the high dielect ceeding 10k VDC. 型瓷介电容器是是适用于 的一种电容器。 ch has a dielectric with a hig circuits where low losses an 质是以在类别温度范围F ielectric is characterized by t Tabl 施加和不施加直流电压时的电 流电压时电容量变化为±20%的 th a cross the preferred values of te a dielectric with a percentage char	tric constant type disc ceran 于作旁路、耦合或用在对 h permittivity and is suitable id high stability of capacitanc 为电容量非线性变化来表 the non-linear change of capa 表 — 温度特性君 e – Temperature characte 的方质被称为2C1级介质。 mperature characteristics with and	hic capacit 抗耗和 for by-pas e are not 征。 citance ov 表 ristics ch ;了表示等: without d.c.	cors for th 电容量稳 ss and cou of major i ver the ca nart 级代码的方 voltage appl)瓷电容器 ne electro 和pling app mportanc tegory te	器。 nic equipn 求不高的 lications o e. mperature 1温度范围。	的电路中的具存 nr for frequency e range. 在-55℃~+125 ng the subclass is als	
	tric of Class 2C1. 施加和不施加直流电压时,在 C时测得的电容量 Maximum capacitance change temperature range with respect to with and without a	 Category t	送别温度范	温度范围和对应的数字代码 erature range and corresponding number code 5°C/ -40°C/ -25°C/ +10°C/				
letter code	不施加直流电压 Without d.c. voltage applied	施加直流电压* With d.c. voltage applied *		2	3	4	5	
2В	±10			Х	Х	Х		
20	±20		Х	Х	Х			
2D	+20/-30	按相关规范规定				Х		
2E	+22/-56	As specified in the specification		Х	Х	Х	Х	
2F	+30/-80			Х	Х	Х	Х	
2R	±15		Х					
2X	±15	+15/-25	Х					
The ap ■ 几种常り Several cu	≦流电压是额定直流电压或按有 plied voltage is the rated d.c. voltage 见的温度特性曲线图,如 ommon temperature charact	e or as specified in the specification. 下图所示。	30 20	X7	R Char. Spec.(u	pper)	• • -	
3) 符合RoHS 2. Complies with		45 65 85 105 125 Temperature (°C)	-00- -00- -00- -00- -00- -00- -60		R Char. Spec.(k	60 80 100	120 140	

		编号DOC NO.:	DEC-SA-WIOO
ersonic _{圆板陶瓷}	电容器规格承认书	版本REV.:	A/0
APPROVAL SPECIFICATIO	N FOR DISC CERAMIC CAPACITORS	日期DATE:	2019/3/12
		页码PAGE:	5 / 12
3. 适用标准			
APPLICABLE STANDARD			
本产品符合下列标准,且本 仲裁。	规格书的相关内容引用以下标准,当双方对此有	存在争议时,可依 [以下标准进行
	ollowing standards, and the relevant content of this specil n dispute, the following criteria for arbitration.	ication refers to the	following
	备用固定电容器 第1部分 总规范(IDT IEC 60384-1) pacitors for use in electronic equipmen — Part 1: Generic	c specification (IDT IE	C 60384-1)
Fixed ca	备用固定电容器 第9部分 分规范 2类瓷介固定电 pacitors for use in electronic equipmen — Part 9: Sectior dielectric, Class 2 (IDT IEC 60384-9)		
4. 结构 STRUCTURE			
The structure of this product is a	电极与导线采用无铅锡焊接而成, 经过激光打核 shown in the following figure, external coating layer to epo c ceramics, silver electrodes, lead wires for tin-plated cop dering, through laser marking.	oxy resin (blue) or ph	
包封			
Coatin U _R ≼	9 :500V: 酚醛树脂		
U _R >:	Phenolic resin 500V: 环氧树脂 Epoxy resin 早锡(无铅锡) Soldering (Lead-free sold	ler)	
	电极(银)		
	Electrode(Silver) 标志(激光蚀刻)		
Ma	rking (Laser etching) 导线(镀锡铜包钢线) Lead (CP wire)		
5. 特性			
GENERAL SPECIFICATIONS			
工作温度范围	Y5U, Y5V: -25°C to +85°C; Y5P: -25°C to +125°C		
Operating temperature range	$X7R: -55^{\circ}C \text{ to } +125^{\circ}C$		
	100pF to 0.1uF		
Canacitance	在25±1°C下使用1kHz 1.0Vrms进行测量,在允许偏差到		
	Measured at 1kHz 1 (Wrms and 25°C+1°C within the specific		
(C _R)	Measured at 1kHz, 1.0Vrms and 25°C±1°C, within the specific		
(C _R) 损耗角正切 (tanð)	0.035 max 50V to 6 300V		
(C _R) 损耗角正切 (tanð) Tangent of loss angle (tanð) 额定电压	0.035 max 50V to 6 300V 在两导线间施加下列电压无异常,时间1s到5s(充/加 The canacitor should not be damaged when the following voltage	女电流小于5mA):	e lead wires for 1
(C _R) 损耗角正切 (tanð) Tangent of loss angle (tanð) 额定电压 Rated Voltage	0.035 max 50V to 6 300V 在两导线间施加下列电压无异常,时间1s到5s(充/放 The capacitor should not be damaged when the following voltage to 5 sec (Charge / Discharge current ≤5mA).	女电流小于5mA):	e lead wires for 1
(C _R) 损耗角正切 (tanð) Tangent of loss angle (tanð) 额定电压	0.035 max 50V to 6 300V 在两导线间施加下列电压无异常,时间1s到5s(充/放 The capacitor should not be damaged when the following voltage to 5 sec (Charge / Discharge current ≤5mA). ≤500V, 2.5U _R	女电流小于5mA):	e lead wires for 1
(C _R) 损耗角正切 (tanð) Tangent of loss angle (tanð) 额定电压 Rated Voltage	0.035 max 50V to 6 300V 在两导线间施加下列电压无异常,时间1s到5s(充/放 The capacitor should not be damaged when the following voltage to 5 sec (Charge / Discharge current ≤5mA).	女电流小于5mA):	e lead wires for 1

地缘电阻 施加额定电压1额定电压大于5000时,使用50000进行测量,时间不超过1分钟。 Insulation resistance (IR) 500V rated voltage tested by 500V) at normal temperature and humidity and less than 1 min. of charging.

温度特性

Temperature characteristic

Y5P, Y5U, Y5V, X7R etc.

Dersonia	®						编号	룩doc No.:		SA-WI004
	圆板陶瓷电容器规格承认书							版本REV.:		
							日期DATE:			19/3/12
APPROVAL S	SPECIFICA	ATION FOR	DISC CEI	RAMIC CA	PACITORS	5		页码PAGE:	6	6 / 12
6. 产品编码 PART NUMBER 本公司产品编码 The product part	number re	presentation	n of the con							
<u>CC</u> 系列 Series	<u>3</u> 额定电压 Rated voltage	<u>332</u> 标称容量 Nominal capacitance	<u>M</u> 容量偏差 Capacitance tolerance	<u>D1</u> 引线 成型方式 Leads format	▲ 编带包装 或脚长 Taping packing or Leads length	直 包封材质 Coating material	<u>F4</u> 温度系数 Temperature coefficient	<u>7J6</u> 生产识别 码 Production identification code	<u>OMF</u> 标志 Marking	
■ 系列 Series		CC: 圆板陶瓷 Disc cerai	瓷电容器 mic capacitors							
■额定电压 Rated voltage		1H: 50V 2A: 100V 2H: 500V		3A: 1kV 3D: 2kV <mark>3F: 3kV</mark>		3G: 4kV 3H: 5kV 3I: 6kV		3K: 8kV		
■标称容量 Nominal capacita	nce		nit is pF, as	F。如下所; shown in belo						
■容量偏差 Capacitance tole	rance	C: ± D: ±		J: ±5% K: ±10% M: ±20%		S: +50%/- Z: +80%/- P: +100%	20%			
■引线成型方式 Leads format		代码 Code	脚距 Leads spacing		代码 Code	1	2	4	5	7
		A C D E	2.54mm 5.08mm 7.50mm 10.0mm		脚型 样式 Leads style drawing	$\left\{ \begin{array}{c} \\ \end{array} \right\}$				
■编带包装或脚 Taping packing or Leads length		● Taping T: Reel pac P: Ammo p	-	 Bulk (Lead 4: 3.5mm 6: 4.0mm 8: 5.0mm 	9: 6.0mm	F: 18.0mm	l: 24.0mm			
■包封材质 Coating material		D: 酚醛(黄 Phenolic (Y		E: 环氧(蓝 Epoxy (Blue						
■温度系数 Temperature coe	fficient	如"温度系数 See "Tempera B4: Y5P	ture coefficien	4) It (a) chart" (F <mark>F4: Y5V</mark>	94) R1: X7R					
■生产识别码 Production identi code	fication	内部控制码 Inteer control		不作说明。 be described in	this an appro	val specificatio	INS.			
■标志		见规格表最	后一栏							

Dersonic 圆板陶瓷电容器规格承认书 APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS

编号DOC NO.: DEC-SA-WI004 版本REV.: A/0 日期DATE: 2019/3/12 页码PAGE: 7 / 12

7. 测量和试验

MEASUREMENT A	AND TEST
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序 No.	项目 Item	标准 Specifications	试验方法 Testing Method
1	工作温度范围 Operating temp. range	Y5U, Y5V: -25°C - +85°C Y5P: -25°C - +125°C X7R: -55°C - +125°C	
2	额定电压 Rated voltage (U _R)	见"规格表"(页码3) See "Data sheet" (P3).	额定电压是指在工作温度范围内,可连续施加在电容器上的最大直流电压或最大交流电压有效值或脉冲电压的峰值。 当交流电压附加于直流电压时,Vp-p或Vo-p(以较大者为准)应维持 在额定电压范围内。 The rated voltage is defined as the maximum voltage which may be applied continuously to the capacitor within the operating temperature range. When AC voltage is superimposed on DC voltage, Vp-p or Vo-p, whichever is larger, should be maintained within the rated voltage range.
3	外观与尺寸 Appearance (APP) and Dimension	外观形状没有明显的缺点,尺寸在标 准范围内。 No marked defect on appearance form and dimensions are within specified range.	电容必须用目视检查其明显的缺点。 The capacitor should be visually inspected for evidence of defect. 尺寸用游标卡尺测量。 Dimensions should be measured with slide calipers.
4	标志 Marking	清晰易于识别。 To be easily legible.	目视检查。 The capacitor should be visually inspected.
5	容量 (C _R) Capacitance (C _R)	在误差范围内。 Within specified tolerance	容量与tanδ在25±1℃下,使用1kHz和1Vrms下测量。
6	损耗角正切(tanδ) Tangent of loss angle (tanδ)	0.035 max	The capacitance, tan δ should be measured at 25°C±1°C with 1kHz and 1.0V (r.m.s.).
7	绝缘电阻 Insulation Resistance (IR)	>4 000MΩ	在两导线间施加额定电压(额定电压大于500V时,使用500V)进行测量,时间不超过1分钟。 The insulation resistance should be measured with a DC voltage not exceeding the rated voltage (above 500V rated voltage tested by 500V) at normal temperature and humidity and less than 1 min. of charging.
8	耐电压 Testing Voltage (TV)	没有不合格 No failure.	在电容器两导线间施加下列测试电压1到5s后不被破坏(充/放电流不 大于5mA)。 The capacitor should not be damaged when test voltages of below are applied between the lead wires for 1 to 5 sec. (Charge/Discharge current ≤ 5mA) ≤500V, 2.5U _R >500V, 1.5U _R
9	导线抗张强度 Terminal Tensile Strength	引线不应断开,电容器不应破裂。 Lead wire should not be cut off capacitor should not be broken.	固定住电容器,在引线上逐步施加径向拉力直至10N,并保持10±1 秒钟。 Fix the body of the capacitor and apply a tensile weight gradually to each lead wire in the radial direction of the capacitor up to 10N and keep it for 10±1 sec.
10	导线抗折强度 Terminal Bending Strengt	引线不应断开,电容器不应破裂。 Lead wire should not be cut off capacitor should not be broken.	在引线出口处沿一个方向施加5N、90°的弯曲压力,再恢复至初始状态。之后,在2至3秒内再以相反方向施加一次90°的弯曲压力。 Each lead wire should be subjected to 5N of weight and bent 90° at the point of egress, in one direction, then returned to its original position and bent 90° in the opposite direction at the rate of one bent in 2 to 3 sec.
11	可焊性 Solderability of Leads	导线必须有3/4以上的面积均匀附着焊 锡 Lead wire should be soldered with uniform coating on the axial direction over 3/4 of the circumferential direction.	引线必须浸入焊料中3±0.5秒钟,浸入深度离导线根部1.5-2.0mm。 The lead wire of a capacitor should be dipped into molten solder for 3±0.5 sec. The depth of immersion is up to about 1.5 to 2.0mm from the root of lead wires. 焊锡温度: 无铅焊(Sn-3Ag-0.5Cu) 245±5℃ Temp. of solder: Lead Free Solder (Sn-3Ag-0.5Cu) 245±5℃ 易溶解的H63号锡235±5℃ H63 Eutectic Solder 235±5℃

Dersonic 圆板陶瓷电容器规格承认书 APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS

编号DOC NO.:	DEC-SA-WI004
版本REV.:	A/0
日期DATE:	2019/3/12
页码PAGE:	8 / 12

↘ 续上表

Continued on the table

序 No.			标准 Specifications	试验方法 Testing Method
		APP	没有可见损伤 No marked defect	
12	焊锡耐热性	∆C/C	Y5P: ±10% X7R: ±15% Y5U, Y5V: ±20%	As shown in figure, the lead wires should be immersed in solder of 260±5°C up to 1.5 to 2.0mm from the root of terminal for 3.5±0.5 sec. 试验后处理: Post-treatment:
12	Soldering Effect	IR >1 000MΩ 电容必须 Capacitor	电容必须存放在室温下24小时。 Capacitor should be stored for 24 h at room condition.	
		TV	如第8项进行试验,没有不合格 Per Item 8.	Molten
		APP	没有可见损伤 No marked defect	将电容器导线焊稳和调整振动频率范围为10-55Hz、总振幅为1.5mm, 振动从10Hz到55Hz,然后再回到10Hz,大约一分钟。
13	振动 Vibration Resistance	C _R	如第5项进行试验,没有不合格 Per Item 5.	The capacitor should be firmly soldered to the supporting lead wire and vibrated a a frequency range of 10 to 55Hz, 1.5mm in total amplitude, with about a 1 minut rate of vibration change from 10Hz to 55Hz and back to 10Hz.
		$tan\delta$	如第6项进行试验,没有不合格 Per Item 6.	总时间六个小时,每两小时在相互垂直方向来回三次。 Apply for a total of 6 hours, 2 hours each in 3 mutually perpendicular directions.
14	温度系 Temperature Chai (TC)		Y5P: $\pm 10\%$ (85°C to 125°C: $+10\%/-40\%$) X7R: $\pm 15\%$ Y5U: $+22/-56\%$ Y5V: $+30/-80\%$	电容器必须按照下列每一步骤进行测量。 The capacitance measurement should be made at each step specified in below. Stwp Temperature (±1°C) 1 +20 2 -25 (X7R: -55) 3 +20 4 +85 (Y5P, X7R: +125) 5 +20
		APP	没有可见损伤 No marked defect	
15	耐湿负荷 Humidity	∆C/C	Y5P: ±10% X7R: ±15% Y5U: ±20% Y5V: ±30%	─ 施加额定电压的电容保持在温度为40±2°C、相对湿度为90-95%条件 下500±12小时。 Apply the rated voltage for 500±12 hours at 40±2°C in 90 to 95% relative humidity.
	Loading	tan δ	小于初始标准的2倍 Less than 200% initial specified value.	
		IR	>1 000MΩ	电容必须贮存在室温条件下24小时。 ——Capacitor should be stored for 24 h. at room condition.
		TV	如第8项进行试验,没有不合格 Per Item 8.	
		APP	没有可见损伤 No marked defect	
16	高温负荷 High	∆C/C	Y5P: ±10% X7R: ±15% Y5U: ±20% Y5V: ±30%	压1000+48/-0小时(充/放电流小于5mA) Apply a DC voltage of below of the rated voltage for 1000+48/-0 hours at 85± 2°C (Y5P, X7R: 125°C) with a relative humidity of 50% max. (Charge/discharge current ≤ 5mA)
	Temperature Load	tan δ	小于初始标准的1.5倍 Less than 150% of initial specified value.	$\leq 500V$, 1.5U _R > 500V, 1.2U _R
		IR	>2 000MΩ	试验后处理:电容器应在室温下储存24小时。
		TV	如第8项进行试验,没有不合格 Per Item 8.	— Post-treatment: Capacitor shall be stored for 24 h at room condition.

Dersonic。 圆板陶瓷电容器规格承认书 APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS

编号DOC NO.: DEC-SA-WI004 版本REV.: A/0 日期DATE: 2019/3/12 页码PAGE: 9 / 12

↘ 续上表

Continued on the table

			1	1				
序 No.	项目 Item			试验方法 Testing Method				
		APP	没有可见损伤 No marked defect					
	油南海开	Δ C/C	Y5P: ±10% X7R: ±15% Y5U, Y5V: ±20%	温度循环试验按以下 Temperature cycling sha Step Temperature				
17	温度循环 17 Temperature and Immersion Cycle	tanδ	小于初始标准的1.5倍 Less than 150% of initial specified value.	(X7 Time 30r 循环次数:5次 Cycle numbers:5 cycles 试验后处理:电容器应在3	(X7R: -55°C) 30min	(Y5P, X7R: 125°C) 30min		
		IR	>1 000MΩ		cles 器应在室温下储存24小时。 acitor shall be stored for 24 h at room condition.			
		TV	如第8项进行试验,没有不合格 Per Item 8.					

8. 包装和储存

PACKAGING AND STORAGE

8.1. 包装

PACKAGING

盒装编带品,每盒2000pcs(每箱20 000pcs)。 Taping of ammo packing, 2000 pcs/box (20 000 pcs/carton) 散包包装,每包1000pcs(视瓷片大小不等,每箱20 000~100 000pcs)。 Bulk packing, 1000 pcs/bag (Depending on the disc size, each carton is 20 000~100 000pcs)

8.2. 贮存条件

STORAGE ENVIRONMENT

电容器绝缘包封层不是完美的密封形式,因此,请勿将电容器存放在腐蚀性气体中,尤其是存在氯气、硫 气、酸、碱、盐等场所,同时应防潮。电容器应存放在温度及相对湿度分别不超出5~40℃及15~70%范围 的场所。

The insulating coating of capacitors does not form a perfect seal; therefore, do not use or store capacitors in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. And avoid exposure to moisture. Store the capacitors where the temperature and relative humidity do not exceed 5 to 40 degrees centigrade and 15 to 70%.

请在6个月内使用电容器。超过6个月,在使用前确认其可焊性和电容量。

Use capacitors within 6 months after delivered. for more than 6 months, confirm the solderability and capacitance before use.

	B			编号DOC NO.:	DEC-SA-WI004								
Dersonic 圆板陶瓷电容器规格承认书 APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS				版本REV.:	A/0								
				日期DATE:	2019/3/12								
				页码PAGE:	10 / 12								
9.测量	量和使用注意事项												
	Suring and Application Notice	<u>-</u>											
9.1.	测量注意事项	-											
	Measurement notice												
	请在以下条件下测量。 Please measure under the following con	ditions.											
9.1.1.	标准大气条件												
	Standard atmospheric conditions												
	除非另有规定,所有试验和测量, Unless otherwise specified, all tests and				ing as given in 5.3								
	of IEC 60068-1.				ing as given in 0.0								
	温度	相对湿度	气压										
	Temperature	Relative humidity	Air pressure										
	15°C∼35°C	25%~75%	86kPa \sim 106kF	-									
	在进行测量之前,电容器应在测:		使整个电容器都达到	」这一温度。为此	目的,规定与试								
	验后恢复时间同样的时间,通常是足够的。 Before the measurements are made, the capacitor shall be stored at the measuring temperature for a time sufficient to allow the entire												
	capacitor to reach this temperature. Th	ne period as prescribed for recover	y at the end of a test is	s normally sufficient f									
	在标准大气条件下进行测量,其 Test and measurement shall be made ur				measurements								
	shall be repeated using one of the refer		-										
	当按某一顺序进行试验时,一个				6								
	When tests are conducted in a sequenc succeeding test.	e, the final measurements of one te	est may be taken as th	e initial measurement	ts for the								
	在测量期间,不应使电容器受到												
9.1.2.	During measurements the capacitor sha 恢复文件	all not be exposed to draughts, dire	ct sunlight or other inf	luences likely to caus	e error.								
9.1.2.	恢复条件 Recovery conditions												
	除非另有规定,恢复应在试验用												
	Unless otherwise specified recovery sha			or testing (9.1.1).									
				5.4.1 of IEC 60068-	如果恢复必须在严格控制的条件下进行,应采用IEC 60068-1中5.4.1的控制条件。 If recovery under closely controlled conditions is necessary, the controlled recovery conditions of 5.4.1 of IEC 60068-1 shall be used.								
	If recovery under closely controlled conditions is necessary, the controlled recovery conditions of 5.4.1 of IEC boubb-1 shall be used. 除非有关规范另有规定,恢复时间应为1h~2h。												
					'i shali de used.								
0.4.0	Unless otherwise specified in the releva		o 2 h shall be used.		'i snaii de used.								
9.1.3.	Unless otherwise specified in the releva 仲裁条件		o 2 h shall be used.		'i snaii de used.								
9.1.3.	Unless otherwise specified in the releva 仲裁条件 Referee conditions 在仲裁情况下,应选用IEC 60068-	nt specification, a duration of 1 h t .1中5.2中规定的仲裁试验用材	海大气条件。										
9.1.3.	Unless otherwise specified in the releva 仲裁条件 Referee conditions 在仲裁情况下,应选用IEC 60068- For referee purposes, one of the standa	nt specification, a duration of 1 h t .1中5.2中规定的仲裁试验用材	海大气条件。	.2 of IEC 60068-1, a									
9.1.3.	Unless otherwise specified in the releva 仲裁条件 Referee conditions 在仲裁情况下,应选用IEC 60068- For referee purposes, one of the standa below, shall be selected:	nt specification, a duration of 1 h t 1中5.2中规定的仲裁试验用杨 ard atmospheric conditions for refer	F准大气条件。 ree tests taken from 5	.2 of IEC 60068-1, a									
9.1.3.	Unless otherwise specified in the releva 仲裁条件 Referee conditions 在仲裁情况下,应选用IEC 60068- For referee purposes, one of the standa	nt specification, a duration of 1 h t .1中5.2中规定的仲裁试验用材	海大气条件。	.2 of IEC 60068-1, a									
9.1.3.	Unless otherwise specified in the releva 仲裁条件 Referee conditions 在仲裁情况下,应选用IEC 60068- For referee purposes, one of the standa below, shall be selected: 温度	nt specification, a duration of 1 h t 1中5.2中规定的仲裁试验用标 ard atmospheric conditions for refer 相对湿度	F准大气条件。 ree tests taken from 5 气压										
9.1.3. 9.2.	Unless otherwise specified in the releva 仲裁条件 Referee conditions 在仲裁情况下,应选用IEC 60068- For referee purposes, one of the standar below, shall be selected:	nt specification, a duration of 1 h t 1中5.2中规定的仲裁试验用标 and atmospheric conditions for refer 相对湿度 Relative humidity	F准大气条件。 ree tests taken from 5 气压 Air pressure										
	Unless otherwise specified in the releva 仲裁条件 Referee conditions 在仲裁情况下,应选用IEC 60068- For referee purposes, one of the standa below, shall be selected:	nt specification, a duration of 1 h t 1中5.2中规定的仲裁试验用标 and atmospheric conditions for refer 相对湿度 Relative humidity 48%~52%	F准大气条件。 ree tests taken from 5 气压 Air pressure										
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	Unless otherwise specified in the releva 仲裁条件 Referee conditions 在仲裁情况下,应选用IEC 60068- For referee purposes, one of the standa below, shall be selected: <u>温度</u> Temperature 25°C±1°C 工作电压 Operating voltage 向电容器施加的电压切勿超过额; The voltage applied to the capacitor mu	nt specification, a duration of 1 h t 1中5.2中规定的仲裁试验用标 and atmospheric conditions for refer 相对湿度 Relative humidity 48%~52% 定电压。 st not exceed the rated voltage.	F准大气条件。 ree tests taken from 5 气压 Air pressure 86kPa~106kF	⁰ a									
	Unless otherwise specified in the releval 仲裁条件 Referee conditions 在仲裁情况下,应选用IEC 60068- For referee purposes, one of the standar below, shall be selected:	nt specification, a duration of 1 h t 1中5.2中规定的仲裁试验用标 and atmospheric conditions for refer 相对湿度 Relative humidity 48%~52% 定电压。	F准大气条件。 ree tests taken from 5 气压 Air pressure 86kPa~106kF 电压										
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	Unless otherwise specified in the releval 仲裁条件 Referee conditions 在仲裁情况下,应选用IEC 60068- For referee purposes, one of the standar below, shall be selected:	nt specification, a duration of 1 h t 1中5.2中规定的仲裁试验用柄 and atmospheric conditions for refer 相对湿度 Relative humidity 48%~52% 定电压。 st not exceed the rated voltage. 直流+交流电压 交流	F准大气条件。 ree tests taken from 5 气压 Air pressure 86kPa~106kF 电压	Da 脉冲电压									

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	ROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS	日期DATE:	2019/3/12				
		页码PAGE:	11 / 12				
	在交流电路或纹波电流电路中使用直流额定电压电容器时,请务必将外加电压留值维持在额定电压范围内。 When DC-rated capacitors are to be used in AC or ripple current circuits, be sure to maintain to Vo-p which contains DC bias within the rated voltage range. 若向电路施加电压,开始或停止时可能会因谐振或切换产生暂时的异常电压。 异常电压的电容器。 When the voltage is applied to the circuit, starting or stopping may generate irregular voltage for or switching. Be sure to use a capacitor with a rated voltage range that includes these irregular	he Vp-p value of the a 请务必使用额定电 or a transit period be	pplied voltage or the 压范围包含这些				
9.3.	过电压影响 Overvoltage effects 施加到电容器的过电压可能会导致电容器内部介质层击穿而引起电路短路。 The overvoltage applied to the capacitor may cause the dielectric layer of the capacitor to break down and cause a short circuit. 击穿前的可持续时间取决于施加电压和周围温度。 The duration before the breakdown depends on the applied voltage and the ambient temperature.						
9.4.	焊锡 Soldering 当在PCB/PWB焊锡这个产品时,不要超过电容器的焊锡耐热性标准。过度的热量 导致热冲击而使陶瓷介质出现暗裂。 When soldering this product to a PCB/PWB, do not exceed the solder heat resistance specificat product to excessive heating could melt the internal junction solder and may result in thermal so element.	ions of the capacitor.	Subjecting this				
	注意:请不要使用于双波峰焊锡中,如 果需要使用于双波峰焊锡,请提前通知 我公司。 Note: please do not use in double wave soldering. If you use double wave soldering, please inform our company in advance.	perature to 130°C	ng Cooling Gradual cooling D°C max, 5 sec max Time (sec)				

当使用烙铁进行手工焊锡时,应该遵照下列条件: When soldering capacitor with a soldering iron, it should be performed in the following conditions. 焊锡温度: 320℃最大 Temperature of iron-tip: 320 degrees C. Max. 烙铁头: 不超过40W Soldering iron wattage: 40W max. 焊锡时间: 不超过3.0秒 Soldering time: 3.0 sec. Max.

Dersonic 圆板陶瓷电容器规格承认书 编号DOC NO.: DEC-SA-WI004 版本REV.: A/0 APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS 日期DATE: 2019/3/12 12/12 页码PAGE: 10. 编带尺寸规格 TAPING SPECIFICATIONS 外弯脚 内弯脚 直脚 Straight leads Outside kink leads Inside kink leads D P2 К C H1 Ød HO Н W2 W1 w ıt2 , ∎t1 P1 F PO

项目 Item		代码 Symbol	标准 (mm) Specification (mm)	备注 Remarks
导线直径 Lead-wire diameter 元件间间距 Pitch of component		d	0.50±0.05	- Human Ka
		Р	12.7±1.0	
	进料孔间距 Feed hole pitch 进料孔与导线垂直距离 Feed hole center to lead 进料孔与元件垂直距离 Hole center to component center		12.7±0.3	间距累积误差:每20孔1.0mm Cumulative pitch error: 1.0mm/20 pitch
			3.85±0.7	
			6.35±1.3	
脚距 Lead-to-lead distance		F	5.0±0.8	
	元件偏移 Component alignment		≤2.0	
	元件沿编带偏离,左或右 Deviation along tape, Left or right		≤1.3	
	纸带宽 Tape width 胶带宽 Hold-down tape width 孔位 Hole position 胶带位置 Hole-down tape position		18.0+1.0/-0.5	
			≥7.0	
			9.0+0.75/-0.5	
ŀ			≤3.0	
元件到纸带的高度 Height of component from tape	直脚类型 For straight lead type	Н	18.0+2/-0	
center	弯脚类型 For kinked lead type	HO	16.0±0.5	
	元件高度 Component height 进料孔直径 Feed hole diameter 编带厚度 Total tape thickness		≤32.25	
			4.0±0.3	
			≤0.9	纸带厚度: 0.5±0.1mm Ground paper: 0.5±0.1mm
编带厚度(含导线) Total thickness, tape and lead wire 剪切长度 Length of snipped		t2	≤1.5	
		L	≤11.0	