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DATA SHEET

Super High Voltage Disc Ceramic Capacitor

Serie: I23004

Range 102= 1000pf

Voltage 10000 Volt

Body Diam. 12,0mm

Body Thickn. 8,5mm

Tolerance M= ±20%

Material Character. 5U

Pitch 10mm

											Voltage Disc Capacitor
										Serie No.:	123004
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	30.04.2011	Customer:	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	1 from 14	Cusiomer.	
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Features

Wide rated Voltage range, wide nominal capacitance range Flame retardent, insulating coating applied **Recomended Application** Filter circuit of high voltage power

High voltage circuit of television set and monitor

High voltage circuit of various electronic equipment

Characteristics	Temp.Char. SL	Temp.Char. Y5P	Temp.Cl	nar. Y5U	Temp.C	har. Y5V			
Operating Temperature		30°C	~ +85°C						
Rated Voltage	4KVDC ~ 6KVDC	4KVDC ~ 15KVDC	4KVDC ~	15KVDC	4KVDC ~	15KVDC			
Withstanding Voltage	1,5 times related voltage								
Capacitance	Within the specified tolerance, testing at 25°C, 1Vrms and 1KHz (at 1MHz for SL products)								
Capacitance	10 ~ 330pf	30pf 100 ~ 2200pf 470 ~ 3300pf			1000 ~ 10000pf				
Dissipation Factor	Cr<30pf, Q≥ 400+20Cr Cr≥30pf, Q≥1000	tg ≤ 2,5%	tg ≤ 3,5%						
Insulation Resistance	Charge at 500VDC for 60 seconds, $R_j \ge 1000M\Omega$								
Temperature	Temperatur Cha	rarcteristics Code	SL	Y5P	Y5U	Y5V			
Characteristics	Temperatur Coe	fficient (10-6 /°C)	. +100 ~ - 1000 10-6/°C	. ± 10%	.+22 ~ +56%	.+22 ~ +82%			

Rated Capacitance

The first and second digits identify the first and second significant figures of the capacitance, the third digit identifies the multiplier. The capacitance unit is pf,

Capacitance Tolerance

Letter Sym	bol	Capacitanc	e Tolerance		Letter	^r Symbol	Capad	citance Toler	ance				
C		±0,2	25pf			K		±10%]	Super Hig	voltage Disc	
D		±0,	5pf			М		±20%			Super High Voltage Disc		
J		±5%				Z	.+80 ~ -20%				Ceramic Capacitor		
										-	Part No.:	123004	
DRW:	Jason	CHKD	Wilson	MAT	ΓL:	Wilson	TOLERANCE	Mason	DATE	30.04.2011	Customer:		
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DRW:

APPD:

Standard atmospheric condition Temperature: 15~35°C Relative Humidity: 45~75% Atmospheric pressure: 86~106KPa (860~1060mbar Operating and storage temperature range **Operating Temperature:** Lowest Operating Highest Operating Temperature Temperature Temperature Characteristics SL . -25°C .+85°C . -25°C .+85°C COH Y5P . -25°C .+85°C Y5U . -25°C .+85°C Y5U . -25°C .+85°C Y5V . -25°C .+85°C Z5U 10°C .+85°C Z5V 10°C .+85°C YR . -25°C .+125°C Storage Temperature Range: -10 to + 40°C

Wilson

MATL:

FINISH

CHKD

Jason

Schumi

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	Characteristics and test methods Electrical characteristics and test methods											
Capacitance tolerance	e &	The Ca and 1Vi	pacitance shall t rms (Class1), 1k Vrms (for Calss	Hz and 1Vrms (Refer to	individual she	et				
						Q≥400+2	20Cr (forCr<30p	of)				
						Q≥100	00 (forCr<30pf)					
							pacitance in unit					
Quality facto		The o	quality factor o	r dissipation fa	ctor shall be	· · · · · · · · · · · · · · · · · · ·	or Y5P,Y5U and	d Z5U				
dissipation fa	actor	mea	asured at the s	ame condition	s ab above	0,5%	max. (for YR)					
							(for Y5V and Z	,				
						5%max. (for S	SBBLC Y5V and	d Y5U)				
						3,5%max	. (for SBBLC Y5	δP)				
Insulatior Resistanc	-	voltage	ulation resistanc (for Vr≤500VDC VDC)within 50±	;); 500VDC (for		1000M Ω min Ω mir	ו ה (for SBBLC)	1000M				
Voltage Pro	oof	540V a 1000V t 3000V shall be voltage 1300	oltage of 300% i ind 500V) 200% to 2000V), 175% /), or 150% rated e applied betwee s of 250% rated IV (fort 500V, 11 veen leads conn	rated voltage (for a rated voltage (for d Voltage (for Do en leads for 1 to voltage (for 50) V and over) sha	or rated voltage for rated voltage CG or SBBLC) 5seconds. The / capacitors) or all be applied	No break	down or flashov	/er				
		,	wrapped on env	elope for 1 to 5 s	seconds.		gh Voltage lic Capacito					
						Part No.:	123004	1				
	TOLER	RANCE	Mason	DATE	30.04.2011 3 from 14	Customer:						
Jamy			Shee	t No.								

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	The capacitor shall be kept for enough time to reach thermal equilibrium at special temperature of each step in the following table.		
	The capacitance measurement shall be made only at the thermal equilibrium of each step.	ſ	Class I
	Step Temperature Step Temperature	-	Temperature coefficient:
	1 20 ± 2°C 4 85 ±2°C (125±2°C for YR)	'	Refer to specification sheet
	2 $25 \pm 2^{\circ}$ C 5 $20 \pm 2^{\circ}$ C	ſ	Capacitance drift:
	3 $20 \pm 2^{\circ}C$,	Within $\pm 1\%$ or $\pm 0,05$ pf
	For temperature characteristics SL the steps 1 and step 2 may be omitted.	1	(Whichever is greater)
	The temperature coeffizient and the capacitance drift shall be calculated by the following formulas. (Cm - Co)		
	=	(Class II & III
-	Со (Т- То) ^{x10⁶} (ррт/°С)		Temperature Permitting
Temperature	$C_0 - C_1$ $C_5 - C_0$ $C_5 - C_1$		Characteris capacitance
Characteristics	= or		tics change
	Co Co Co	,	Y5P ± 10%
	Where	,	YR ± 15% to -30%
	Co Capacitance at step 3		Y5U ± 22% to -56%
	Cm Capacitance at step 2 and/or step 4		Z5U ± 22% to -56%
	C1,C5 Capacitance at step 1 and step 5	,	Y5V ± 22% to -82%
	To Measuring temperature at Step 3		Z5V ± 22% to -82%
	T Measuring temperature at Step 2 and /or step 4		
	Pre-tratement:		
	The capacitor shall be stored at a temperature of 55 ±2°C and a relative humidity of 20% or less for 16 to 24 hours.		
	And then the capacitor shall be allowed immediately to cool in container using appropriate dryer such as activated carbon, silica gel		
Robustness of	The capacitor body shall be held in such a manner so that axis of the lead is vertical. The tensile force of 10N (for Ø 0,6mm	n lead)	The capacitor shal be no
Termination	ot 5N (for Ø 0,5mm lead) shall be applied to the lead in a direction of ist axis and acting in a direction away from the body	of the	broken and the lead shall be
rennination	capacitor for 10 ±1 seconds.		no looseneed or cut off.
		Sup	er High Voltage Disc
		-	Ceramic Capacitor
	4		•
		Part	No.: I23004

										Fart NO	123004
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	30.04.2011	Customer:	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	4 from 14	Customer.	
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Bending	The capacitor is held in such a manner so that axis of the lead is vertical. As mass applying a force of 5N (for Ø 0,6mm lead) or 2,5N (for Ø 0,5mm lead) is then suspended from the end of the lead. The body of the capacitor is then inclined within a period of 2 to 3 seconds, through an angle of approximately 90° in the vertical plane and then returned to its initial position over the same period of time. This operation constitutes one bend. The lead shall be subjected to a total of 2 alternating bends in to opposite directions.	The lea	ad shall be no broken.
Endurance characte	eristics and test methods.		
Solderability	Solder temperature: 235 ±5°C Immersion time; 2 ± 0,5 seconds Immersion speed: 25 ± 6mm/s	A new uniform coating of the surface being imi	of solder shall cover a minimum of 95% mersed.
	Frequency range: 10~55Hz.	Apperance	No visible damage
Vibration	Amplitutde (total excursion); 1,5mm	Capacitance change	Within specified tolerance
VIDIALION	Total duration: 6hours. This motion shall be aplied for 2 hours in aech of three mutually perpendicular directions.	Quality factor or dissipation factor	Refer to clause 5.1.2
	Solder temperature and immersion time: $260 \pm 5^{\circ}$ C, 10 ± 0.5 seconds.	Apperance	No visible damage
Resistance to Soldering Heat	The immersing depth shall be a position 1,27mm from the seating plane.	Capacitance change	\pm 2,5% or \pm 0,25pf (whichever is greater, for class I). \pm 5% (for Y5P and YR). \pm 15% (for Y5U and Z5U). \pm 20% (for Y5V and Z5V).
	Post treatment: The capacitor shall be preversed at the standard atmospheric condition for 24 \pm	Voltage Proof (for	
	2hours.	between leads only)	
Solvent resistance	The capacitor shall be immersed into isopropylalcohol. For 30 ± seconds.	Apperance	No visible damage legible marking

										Ceramic	n Voltage Disc c Capacitor
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							A				ile la sua a alcia a		
							Apperanc	ce		ble damage Leg			
											ever is the greater	for class 1)	
							Capacitance C	Change		(Y5P and YR)			
								0	± 20% (Y5U and Z5U)				
		The capacitor shall	he placed in the	test chamber at	temperature of	$-25 \pm 2^{\circ}$ C for				: 30% (Y5V and Z5V)			
		minutes then at roo					$Q \ge 200 + 10Cr (for Cr < 10pf)$						
Temperature Cy		inutes and at room			•	,				5 + 5/2Cr (for 1			
	The capacitor shall be subjected to a total of 5 cycle. Post-treatment: The capacitor Quality factor or $Q \ge 350$ (for Cr $\ge 30pf$))					
		shall be preverse	dissipation fa	actor		x. (Y5V & Z5V)							
		·		·					3% ma	x. (Y5P, YR, Y5	U & Z5U)		
									7,5% m	nax. (SBBLC)			
								istance	1000M	Ω min.			
							500M Ω min. (SBBLC)						
							Voltage pro	roof	For bet	ween leads only	<i>.</i>		
					Apperanc	ce	No visil	ble damage					
							Capacitance C		As the				
		he capacitor shall b					Q or DF	-	As the				
Damp Heat	rela	tive humidity of 90				preseved for 1 to			2500M	Ω min (Class I)			
		2 hours at the standard atmospheric condition.					Insulation Resi	istance					
								500M Ω min (Class III)					
							Voltage pro	roof	For between leads only.				
							Apperanc	ce					
	– Г – т	he voltage that is e	aual to 200% rat	ed voltage (for P	50 and 500 c	anacitors) or	Capacitance C	Change					
		5% rated voltage (f					Quality facto			т	he same us before	2	
Endurance		• •			•		dissipation fa	actor				•	
	SBBLC) shall be applied continuously to the capacitor at temperature of $85 \pm 3^{\circ}$ C $\pm 3^{\circ}$ C for YR) for 1000 ⁺⁴⁸ hours.						Insulation Resi	istance					
							Voltage pro	roof					
	I						voltage pro	001	J			n Voltage Disc	
											Ceramie	c Capacitor	
											Part No.:	I23004	
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DA	DATE 30.04.2011		Customori		
APPD:	Schumi			FINISH	Jamy	1	Sheet No.				Ustomer		

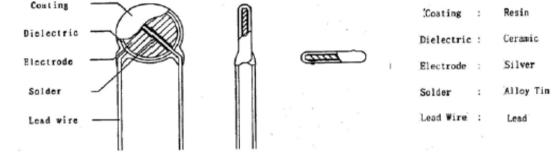




Structure and ROHs Materail request

The marking of class I temperature characteristics is the color block on top of the capacitor

T	C	ΟΔ		L								
Temperature												
Characteristics	Bla	ack	No	one								
The marking of	of class II & III t	temperature ch	naracteristics is	s symbols								
specified in fo	llowing table:											
Temperature	Y5P	Y5U / Z5U	Y5V / Z5V	YR								
Characteristics	Black	E	F	HRR&R								
Capacitance			-									
When rated cap	acitcance is und	der 1ßßpf the ca	pacitance marki	ng is value								
being rated cap	Vhen rated capacitcance is under 1ßßpf the capacitance marking is value eing rated capacitance in unit pf. When rated capacitance is 100pf or over the											
capacitance ma	irking is made in	third digit method	od.									
Tolerance:												
The tolerance	marking for C	lass I is the sy	mbols specified	d in following								
table.	-	-	-	_								
Tolerance:	± 0,25pf	±0,5pf	±5%	±10%	±20%							
Symbol	С	D	J	К	М							
The tolerance	marking for C	lass II & III is t	he symbols sp	ecified in								
following table).											
Tolerance:	± 10%	± 20%	.+50%, -20%	.+100%, 0%	.+80%, -20%							
Symbol	К	М	SL	Р	Z							
Dated Valtage			•									



Components	Material	ROHS request	Remark		
Coating	Resin	Cd <100ppm;			
Dielectric	Ceramic	Pb <100ppm;	Appendix 1; SGS report		
Electrode	Silver		(Availbale as customer request or See Appendix		
Solder	Alloy tin	HG, Ctr PBBs, PBDEs, N.D	1		
Lead Wire	Lead	N,D			

Rated Voltage

When rated voltage is 50V the voltage marking is symbol "____" under capcitance marking.

When rated voltage is 500V the voltage marking is symbol "__" over capcitance marking.

When rated voltage is 1000Vor over, the voltage marking is symbols 1KV, 2KV, 3KV, 6KV..... over capacitance marking.

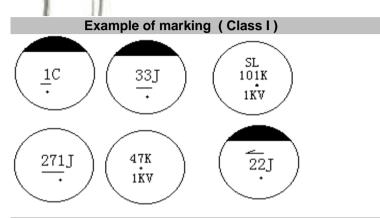
										Ceramic	Voltage Disc Capacitor
										Part No.:	123004
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	30.04.2011	Customer:	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	7 from 14	Cusioner.	
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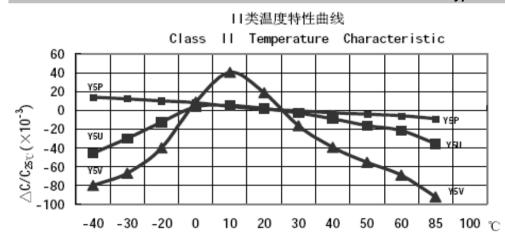


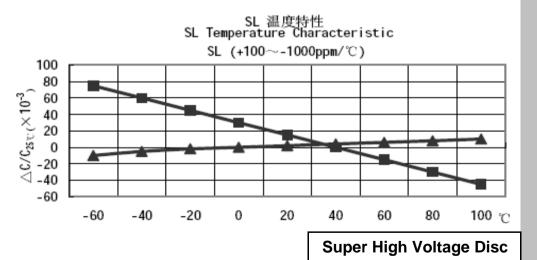
DRW: APPD:

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Typical Characteristics Graph





									Ceram	ic Capacitor
									Part No.:	I23004
Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	30.04.2011	Customer:	
Schumi			FINISH	Jamy		Shee	t No.	8 from 14	Customer.	
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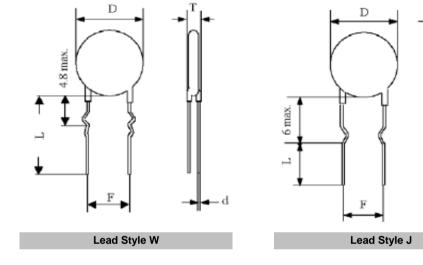
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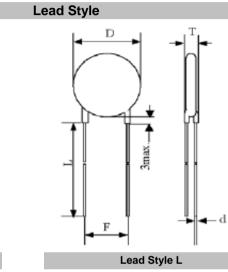
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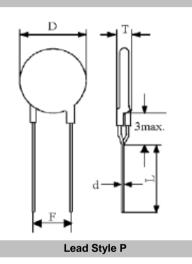


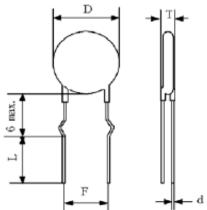












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F	, I I → →	d d									Voltage Disc Capacitor
Le	ead Style K									Part No.:	123004
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	30.04.2011	Customer:	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	9 from 14	Cusiomer.	

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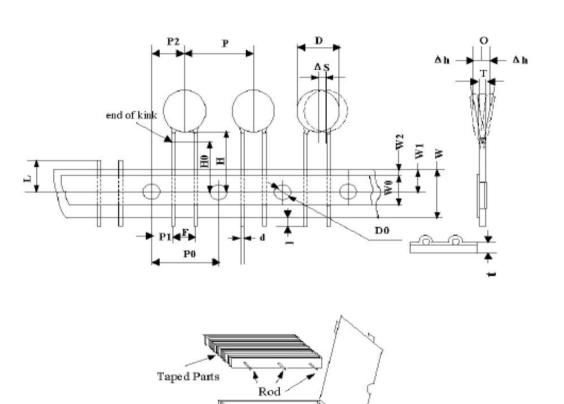
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Packing Style F



Symbol	Dimension (mm)
P0	12,7 ±0,2
P0	12,7 ±1,0
F	5,0 +0,5/-0,2
P1	3,85 ±0,4
P2	6,35 ±0,4
HO	16,0 ±0,5
Н	20,0 ±0,5
W	18,0 ±0,5
W0	8,0 min
W1	9,0 ±0,3
W2	3,0max.
t	0,7 ±0,2
D	To comply with individual sheet
D0	4,0 ±0,2
d	To comply with individual sheet
I	2,0 max.
L	11 max.
Т	To comply with individual sheet
ΔS	0,5 max
ΔH	0,5 max

		Inner Pack	ewing	×							Voltage Disc Capacitor
										Part No.:	123004
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	30.04.2011	Customer:	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	10 from 14	Customer.	
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Packing Style V



DRW:

APPD:





0 P2 P D end of kink a $\mathbf{D0}$ P1 PO

Taped Parts	· · · · /
÷.	Rod / Ç
\sum	Sewing
Inner Pacl	

MATL:

FINISH

Wilson

CHKD

Jason

Schumi

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	Symbol	Dimension (mm)
	P0	15,0 ±0,2
	P0	15,0 ±1,0
Δh	F	7,5 +0,5/-0,2
	P1	3,75 ±0,4
	P2	7,5 ±0,4
	H0	16,0 ±0,5
	Н	20,0 ±0,5
	W	18,0 ±0,5
	WO	11,5 min
	W1	9,0 ±0,3
	W2	3,0max.
	t	0,7 ±0,2
	D	To comply with individual sheet
	D0	4,0 ±0,2
	d	To comply with individual sheet
	Ι	2,0 max.
	L	11 max.
	Т	To comply with individual sheet
	Δ S	0,5 max
	ΔH	0,5 max

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Wilson

Jamy

email: info@edcon-components.com

Part No.:

Customer:

30.04.2011

11 from 14

DATE

Super High Voltage Disc **Ceramic Capacitor**

123004

COMPONENTS opyngni by EDC

TOLERANCE

Mason

Sheet No.

Packing Style U







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Symbol	Dimension (mm)
P0	12,7 ±0,2
P0	25,4 ±1,0
F	10,0 +0,5/-0,2
P1	7,7 ±0,4
P2	
H0	16,0 ±0,5
Н	20,0 ±0,5
W	18,0 ±0,5
W0	11,5 min
W1	9,0 ±0,3
W2	3,0max.
t	0,7 ±0,2
D	To comply with individual sheet
D0	4,0 ±0,2
d	To comply with individual sheet
I	2,0 max.
L	11 max.
Т	To comply with individual sheet
Δ S	0,5 max
ΔH	0,5 max

Taped Parts	Rod
\mathbf{X}	Sewing
Inner Pack	

MATL:

FINISH

Wilson

<u> </u>						Voltage Disc Capacitor		
					Part No.:	123004		
Wilson	TOLERANCE	Mason	DATE	30.04.2011	Customer:			
Jamy		Shee	t No.	12 from 14				

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Jason

Schumi

CHKD

DRW:

APPD:

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Ordering Informations

Serie		Range	Tolerance Code	Material Code	Voltage Code	Lead Length	Lead Style	Lead Pitch	Lead Diameter	ROHS	Packing Code	
123004	-	102	M	5U	С	11	L	D	8	R	BU	
	1	L	I			1			1			
		102= 1000pf	M= ±20%	5U= Y5U	C= 10KV	11= 11mm	L= Style L	D= Pitch 10mm	8= 0,80mm	R= ROHS Conform	Ware	
						25= 25mm	P= Style P			N= NON ROHS	TF= Tape Style F	
							W= Style W			Conform	TV= Tape Style U	
							J= Style J				TU= Tape Style U	
							K= Style K					
										Su	iper High Vol Ceramic Cap	-
											art No.:	123004
DRW	2	son CH		son M	ΔTI · \//il	Ison TOLER		ison D4	TE 30.04	2011		

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	30.04.2011	Customor		
APPD:	Schumi			FINISH	Jamy		Shee	Sheet No.		Customer:		
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Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)

