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SUBJECT		ACPA SURGE ABSORBER		DATE	2016-10-12			
PART NUMBER			ACPA14D821KSBNL					
1	Dimension				•			
1.1	Appearance	No visible scarp. Clear marking.						
1.2	Disk Dimension	↓		→ 4	D	16.5 max.		
		(ACPA 14D821K		Н	22.0 max.		
					Т	7.6 max.		
		(d	0.8 ± 0.1		
		Ţ			Е	7.5 ± 0.8		
					L	20.0min		
			→ ← d					
						unit : mm		
1.3	Marking	Trade Mark, Spec., UL & CSA, VDE recognized						
2	2 Packing							
2.1	Quantity	400	pcs					
2.2	Packing Dimension			7	LP	250 max.		
					HP	60 max.		
						170 max.		
			LP►	DATE : .				
						unit : mm		
3	Material List							
3.1	Drawing							
			/	- Coating				
			(∡.,∭-	- Electrode				
			/ / / / / / / / / / / / / / / / / /	- Disk Body				
	Lead							
3.2	Material Chart RoHs	s Item Composition Coating Epoxy Resin						
		Lead Cp/Cu. Wire						
		Electrode Silver Disk Zinc Oxide Solder Sn:100%						
				511.10070	,			

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4	4 Electrical Test Method					
4.1	Varistor Voltage	The voltage between two terminals with the specified measuring current 1 mA				
4.2	Maximum Allowable	The recommended ma	ximum sine wave voltage (rms) o	r the maxim	um DC	
	Voltage	voltage can be applied	l continuously.			
4.3	Maximum Clamping	The maximum voltage	e between two terminal with the sp	becification s	standard	
	Voltage	impulse current (8/20	µsec).			
4.4	Rated Wattage	The maximum power that can be applied within the specified ambient				
4.5	Energy	The maximum energy within the varietor voltage change of $\pm 10\%$ when one				
		impulse of 2msec. is applied.				
4.6	Withstanding Surge	The maximum current	t within the varistor voltage chang	e of ±10% w	vith the	
	Current	standard impulse curre	ent (8/20 μsec) applied one time.			
4.7	Varistor Voltage	Vh at 20°C(68°E)	$-Vb at 70^{\circ}C(158^{\circ}E)$ 1			
	Temp. Coefficient	$\frac{100 \text{ at } 20 \text{ C}(001)}{\text{Vh at } 20}$	$\frac{1}{100} \frac{1}{100} = \frac{1}{100} = \frac{1}{100} = \frac{1}{100}$	– X 100	(%/°C)	
		, o ut 2				
4.8	Surge Life	The change of Vb shall be measured after the impulse listed below is applied				
		10,000 times continue	ously with the interval of ten second	nds at room		
		temperature.				
		5 series	180L to 680K	0.:	5A (2 msec)	
			820K to 471K	20	A(8/20µsec)	
		7 series	180L to 680K	1.:	5A (2 msec)	
			820K to 471K	5()A(8/20µsec)	
		10 series	180L to 680K	50)A(8/20µsec)	
			820K to 821K	10	0A(8/20µsec)	
		14 series	180L to 680K	75	5A(8/20µsec)	
			820K to 821K	15	0A(8/20μsec)	
		20 series	180L to 680K	10	0A(8/20μsec)	
			820K to 821K	20	0A(8/20μsec)	
5	Mechanical Test	Method		1	·	
5.1	Terminal Pull	After gradually applying the load specified below and keeping the unit fixed				
	Strength	for ten seconds, the terminal shall be visually examined for any damage.				
		Terminal diameter Load				
		0.6 mm (.024") $0.5 kg (1.1 lbs)$				
		1.0 kg (2.2 lbs)				
52	Terminal Bending	The unit shall be seen	red with its terminal kent vertical	and the weigh	the specified	
5.2	Strength	helow he applied in th	e axial direction. The terminal she	and the weight	,ni specificu he hent hv	
	Suongui	Derow be appried in the axial direction. The terminal shall gradually be bent by 90° in one direction, then 90° in the opposite direction, and again back to				
		yo in one direction, then yo in the opposite direction, and again back to				
		Terminal diameter Load				
		1000000000000000000000000000000000000				
		$0.8 \text{mm} (.021^\circ) = 1.0 \text{kg} (2.2 \text{ lbs})$				
		1.0mm (.039") 2.0kg (4.4 lbs)				

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5.3	Vibration	Subjected to simple harmonic motion of 0.75 mm (0.029") amplitude					
		1.5mm (0.058") maximum total excursion-between limits of 10 ~ 55 Hz.					
		frequency scan shall the	nen be applied for period	of two hou	irs in each	of three	
		mutually perpendicula	r direction, Thereafter,	the unit sha	all be visu	ally	
		examined.	examined.				
5.4	Solderability	After dipping the terminal to a depth of approximately 3 mm (0.118") from					
		the body in a soldering bath of 260 $^\circ\!{\rm C}$ ($500^\circ\!{\rm F}$) for two seconds , the terminal					
		shall be visually exam	ined.				
5.5	Resistance to	The terminal shall be	dipped into a soldering ba	ath having a	a temperat	ure of	
	Soldering Heat	350℃ (660 °F) to a p	point 3 mm (0.118") from	m the body	of the uni	t and	
		then be held there for	three seconds. The chang	ge of Vb and	d mechanio	cal	
		damage shall be exam	ined.				
6	Environmental Test	t Method					
6.1	High Temperature	The specimen shall be	subjected to 125℃ (2:	57°F) for	: 1000 hou	rs in a	
	Storage	thermostatic bath without load and then stored at room temperature and					
		humidity for one to two hours. Thereafter, The change of Vb Shall be					
		measured.					
6.2	Humidity	The specimen shall be subjected to 40° C (104° F), 90 to 95 % R.H. for					
		1000 hours without load and then stored at room temperature and humidity					
()	Thermol Sheeds	tor one to two hours. Thereafter, the change of Vb shall be measured.					
0.3	Thermal Shock	I ne temperature cycle snown below shall be repeated five times and then					
		stored at room temperature and humidity for one to two hours. The change $af Wh as well as machanical damage shall be even included.$					
		Sten		Period			
		1	$-40^{\circ}C(-40^{\circ}F)$	30 min			
		2	85℃(185°F)	30 min	•		
6.4	High Temperature	$\frac{2}{2} = \frac{35 \mathrm{C}(185 \mathrm{T})}{35 \mathrm{C}(185 \mathrm{T})} = \frac{35 \mathrm{C}(185 \mathrm{T})}{35 \mathrm{C}(185 \mathrm{T})}$				at 85℃	
	Operation	(185°F) for 1000 hours the specimen shall be stored at room temperature					
	1	and humidity for one to two hours. Thereafter, the change of Vb shall be					
		measured.					
6.5	Humidity Operation	The specimen shall be	subjected to 40°C (104°F	F),90 to 95	5%RH and	the	
		Maximum Allowable Voltage for 1000 hours and then stored at room					
		temperature and humidity for one to two hours. Thereafter, the change of Vb					
		shall be measured.					
6.6	Low Temperature	The specimen shall be subjected to -40 $^\circ$ C (-40 $^\circ$ F) without load for 1000 hours					
	Storage	and then stored at room temperature for one to two hours. Thereafter, the change					
		of Vb shall be measured.					

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7	Electrical Test R	equirements					
7.1	Varistor voltage	Vb	Measuring current : 1 mA DC				
7.2	Maximum Allowable	А					
	Voltage						
7.3	Clamping Voltage		1355 V max.	Measuring current : 50 A			
				Impulse waveform : 8/20 µsec			
7.4	Rated Wattage		0.6 W				
7.5	Energy		157 J	Impulse waveform : 8/20µsec			
7.6	Withstanding Surge	1 Pulse	4500 A	Impulse waveform : 8/20 µsec			
	Current	2 Pulse	3000 A	8/20 µsec, interval 5 min.			
7.7	Varistor Voltage	0	to 0.05% / °C	Temp. range : +25 °C ~ +85 °C			
	Temp. Coefficient						
7.8	Surge Life	$\triangle Vb / V$	$Vb \leq 10\%$ at 150 A	Ir	Impulse waveform : 8/20 µsec		
				10	0000 times	by interval 10 sec	
7.9	Capacitance	240	pF (reference)		Measure fre	equency : 1 KHz	
8	Mechanical Test I	Requirement		-			
8.1	Terminal Pull	No ou	Load : 1.0 kg(2.2 lbs)				
	Strength						
8.2	Terminal Bending	No ou	Load : 1.0 kg(2.2 lbs)				
	Strength						
8.3	Vibration	No ou	Frequency : 10 ~55 Hz				
			Amplitude : 0.75 mm				
8.4	Solderability	Almost all the	Solder Temp. : $260^{\circ}C \pm 2^{\circ}C$				
		with	Immersed time : 3 sec				
8.5	Resistance to	riangle V	$b/Vb \leq \pm 5\%$	Solder Temp. : $350^{\circ}C \pm 2^{\circ}C$			
	soldering heat	No ou	tstanding damage	Immersed time : 3 sec			
9 Environmental Test Requirements							
9.1	High Temperature $\triangle Vb / Vb \leq \pm 5\%$			Ambient temp. : $125^{\circ}C \pm 2^{\circ}C$			
	Storage		Time : 1000 hours				
9.2	Humidity	riangle V	$b/Vb \leq \pm 5\%$	Ambient temp. : $40^{\circ}C \pm 2^{\circ}C$			
				Humidity : 90 to 95 % R.H.			
					Time :	1000 hours	
9.3	Thermal Shock	riangle V	$b/Vb \leq \pm 5\%$	Step	Temp.	Period	
				1	-40 °C	30 min.	
				2	85 °C	30 min.	
<u> </u>		۸ ۲ ۳	5 Cycles				
9.4	High Temperature	riangle V	Ambient temp. : $85^{\circ}C \pm 2^{\circ}C$				
0.5	Operation	۸ ۲ 71	1 ime : 1000 hours				
9.5	Humidity Operation	riangle V	Amotent temp. : $40 \text{ C} \pm 2 \text{ C}$				
				Humidity : 90 to 95 % K.H.			
0.6	Low Tomporatura	۸ ۲ ۲	Ъ / \7Ь < 上E0/	1 me : 1000 hours			
9.6	Low remperature	ightarrow V	U/VD ≧ ±5%	Ambient temp. : $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$			
	Siorage			Time : 1000 hours			



单击下面可查看定价,库存,交付和生命周期等信息

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