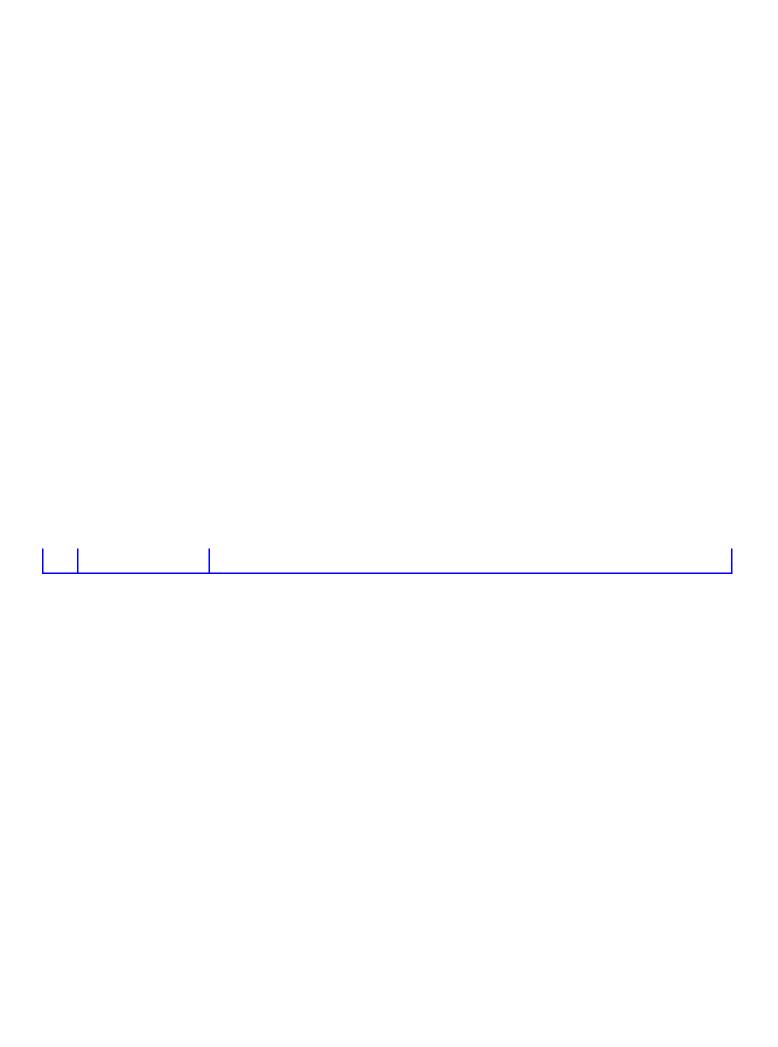
CLASSIFICATION			SPECIFICATION		1 / 4	
SUBJECT		ACPA SURGE ABSORBER		DATE	2016-8-10	
PART NUMBER			ACPA53D821K			
1	Dimension					
1.1	Appearance					
1.2	Disk Dimension		D T	D	56 max.	
				Н	61 max.	
				T	10.8 max.	
			ACPA	d	10.7 ± 0.5	
		١	53D821K ±	Е	25.4 ± 1.0	
				L	16.5min	
				Φ	4.3 ± 0.2	
				t	0.7 ± 0.1	
1.3	Marking		Trade Mark Spec recognized	unit : mm		
2						
2.1	Quantity	144	pes			
2.2	Packing Dimension	/		LP	403 max.	
		/			270 max.	
				WP	273 max.	
	<u>₹</u>		QPN : . LOT NO . DATE : .	ı	unit : mm	
3	Material List					
3.1	Material Chart RoHs	Item	-			
		Coating				
		Lead	Cp/Cu. Wire Silver			
		Electrode				
		Disk	Zinc Oxide			
Solder			Sn:100%			

CLASSIFICATION		SPECIFICATION	PAGE	2 / 4			
SUBJECT		ACPA SURGE ABSORBER DAT		2016-8-10			
4	Electrical Test M	Method					
4.1	Varistor Voltage	The voltage between two terminals with the specified measuring current 1 mA DC applied is call Vb.					
4.2	Maximum Allowable Voltage	The recommended maximum sine wave voltage (rms) or the maximum DC voltage can be applied continuously.					
4.3	Maximum Clamping Voltage	The maximum voltage between two terminal with the specification standard impulse current (8/20 μsec).					
4.4	Rated Wattage	The maximum power that can be applied within the specified ambient temperature.					
4.5	Energy	The maximum energy within the varistor voltage change of $\pm 10\%$ when one impulse of 2msec. is applied.					
4.6	Withstanding Surge Current	The maximum current within the varistor voltage change of $\pm 10\%$ with the standard impulse current (8/20 µsec) applied one time.					
4.7	Varistor Voltage Temp. Coefficient	$\frac{\text{Vb at } 20^{\circ}\text{C}(68^{\circ}\text{F}) - \text{Vb at } 70^{\circ}\text{C}(158^{\circ}\text{F})}{\text{Vb at } 20^{\circ}\text{C}(68^{\circ}\text{F})} \text{X} \frac{1}{50} \text{X} 100 (\%^{\circ}\text{c})$					
5	Mechanical Test	Method					
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	Load				
		0.6mm (.024") 0.5kg (1.1	lbs)				
		0.8mm (.031") 1.0kg (2.2	lbs)				
		1.0mm (.039") 2.0kg (4.4	lbs)				
5.2	Terminal Bending	The unit shall be secured with its terminal kept vertical and the weight specified					
	Strength	below be applied 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					
		the original position. The damage of the terminal shall be visually examined.					
		Terminal diameter Load					
		0.6mm (.024") 0.5kg (1.1	lbs)				
		0.8mm (.031") 1.0kg (2.2	lbs)				
		1.0mm (.039") 2.0kg (4.4 lbs)					

CLASSIFICATION		SPEC	CIFICATION		PAGE	3 / 4		
SUBJECT		ACPA S	URGE ABSORBER		DATE	2016-8-10		
5.3	Vibration	Subjected to simple harmonic motion of 0.75 mm (0.029") amplitude						
		1.5mm (0.058") maxim	0 ~ 55 Hz.					
		frequency scan shall then be applied for period of two hours in each of three						
		mutually perpendicular d	lirection, Thereafter, the	unit shall be	visually			
		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 $^{\circ}\mathrm{C}$ ($500^{\circ}\mathrm{F}$) for two seconds , the terminal						
		shall be visually examined.						
5.5	Resistance to	The terminal shall be dipped into a soldering bath having a temperature of						
	Soldering Heat	$350^{\circ}\mathrm{C}$ ($660^{\circ}\mathrm{F}$) to a point 3 mm ($0.118^{\circ}\mathrm{I}$) from the body of the unit and						
		then be held there for three seconds. The change of Vb and mechanical						
		damage shall be examined.						
6	Environmental Tes	st Method						
6.1	High Temperature	The specimen shall be su	bjected to 125°C (257°	F) for 1000	0 hours 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 $40^{\circ}\mathrm{C}$ ($104^{\circ}\mathrm{F}$) , 90 to 95 % R.H. for						
		1000 hours without load and then stored at room temperature and humidity						
		for one to two hours. Thereafter, the change of Vb shall be measured.						
6.3	Thermal Shock	The temperature cycle shown below shall be repeated five times and then						
		stored at room temperature and humidity for one to two hours. The change						
		of Vb as well as mechanical damage shall be examined.						
		Step	Temperature	Perio	i			
		1	-40°C(-40°F)	30 mir	1.			
		2	85℃(185°F)	30 mir	1.			
6.4	High Temperature	After being continuously applied the Maximum Allowable Voltage at 85 ℃						
	Operation	($185^{\circ}F$) for 1000 hours , the specimen shall be stored at room temperature						
		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 $40^{\circ}\mathrm{C}$ ($104^{\circ}\mathrm{F}$),90 to 95%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.						



(CLASSIFICATION	Sl		PAGE	4 / 4		
	SUBJECT	A	CPA SURGE ABSORBER		DATE	2016-8-10	
7	Electrical Test R	equirements					
7.1	Varistor voltage	Vb	: 738 V~ 902 V	Measuring current: 1 mA DC			
7.2	Maximum Allowable	AC : 510 V rms					
	Voltage	DC : 670 V					
7.3	Clamping Voltage			Measuring current: 500 A			
				Impulse waveform: 8/20		n: 8/20 μsec	
7.4	Rated Wattage	1.4 W					
7.5	Energy		1600 J	Impulse waveform : 8/20µsec			
7.6	Withstanding Surge			Impu	ılse waveforn	n : 8/20 µsec	
	Current	In	35000 A	8/20 µsec , interval 5 min.			
7.7	Varistor Voltage	0 to 0.05% / °C			p. range : +2:		
	Temp. Coefficient			1 6 5 - 5- 5- 6			
7.8	Surge Life	$\triangle Vb / Vb \le 10\%$ at 200 A		Impulse waveform : 8/20 μsec			
,.0	Surge Ene			10000 times by interval 10 sec			
7.9	Capacitance	3700	pF (reference)		asure frequen		
8	Mechanical Test F		pr (reference)	1/10/	asare frequen	. 1 11112	
8.1	Terminal Pull	•	tstanding damage	Load : 2.0 kg(4.4 lbs)			
0.1	Strength	110 04	Loau . 2.0 kg(4.4 105)				
8.2	Terminal Bending	No outstanding damage		Load : 2.0 kg(4.4 lbs)			
0.2	Strength	110 04					
8.3	Vibration	No outstanding damage		Frequency: 10~55 Hz			
0.5	Violation			Amplitude: 0.75 mm			
8.4	Solderability	Almost all the surface should be covered		Solder Temp. : $260^{\circ}\text{C} \pm 2^{\circ}\text{C}$			
0.4	Solderability	,		Immersed time : 3 sec			
8.5	Resistance to		with solder uniformly △Vb / Vb ≦ ±5%		Solder Temp. : $350^{\circ}\text{C} \pm 2^{\circ}\text{C}$		
0.5	soldering heat			Solder Temp. : 350 C \pm 2 C Immersed time : 3 sec			
9			tstanding damage	1	mmersea um	ie . 3 sec	
9 9.1	Environmental Test High Temperature		b / Vb ≦ ±5%	A mh	siant tamp :	125°C ± 2°C	
9.1		∆ V	Ambient temp. : $125^{\circ}\text{C} \pm 2^{\circ}\text{C}$				
9.2	Storage	^1/	Time : 1000 hours Ambient temp. : $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$				
9.2	Humidity	△Vb / Vb ≦ ±5%					
				Humidity: 90 to 95 % R.H. Time: 1000 hours			
0.2	Th 1 Ch1.	۸۱/	h ///h < 150/	C4			
9.3	Thermal Shock	Δ V	b / Vb ≦ ±5%	Step	Temp.	Period	
				1	-40 °C 85 °C	30 min.	
				2		30 min.	
0.4	High Tages	△Vb / Vb ≦ ±10%		5 Cycles			
		J/VD≡IIU%	Ambient temp. : $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$				
0.5	Operation	△Vb / Vb ≦ ±10% △Vb / Vb ≦ ±5%		Time: 1000 hours			
9.5	Humidity Operation			Ambient temp. : $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$			
				Humidity: 90 to 95 % R.H.			
0. (L and Tax t			Time: 1000 hours			
9.6	-	ΔV	Ambient temp. : $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$				
	Storage		Time: 1000 hours				

单击下面可查看定价,库存,交付和生命周期等信息

>>ACPA(华格科技)