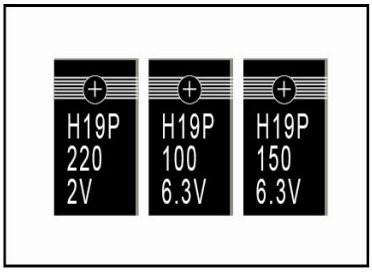
HPA SERIES

- Conductive polymer aluminum solid capacitor, Plastic mold,105℃,1000 hours
- Low ESR ,high ripple current capability, Low ESL
- Applications: Notebook, DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant

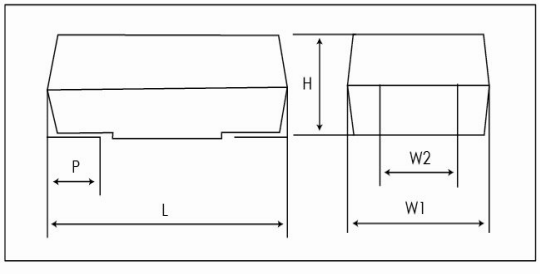
HPA



Items	Characteristics
Operating Temperature Range(°C)	-55~+105
Voltage Range (V)	2~16
Capacitance Range(μF)(20°C,120Hz)	10~330
Capacitance Tolerance (20°C,120Hz)	±20%
Surge Voltage	U_R×1.25
Leakage Current (μA)※1	Please see attached ratings list (20℃,2min)
Dissipation Factor (20°C, 120Hz)	≤6%
Equivalent Series Resistance(20°C,100kHz)	Please see attached ratings list
Temperature Characteristics(Max Impedance Ratio at 100kHz)	$Z_{+105℃}$ / $Z_{+20℃}$ ≤1.25 $Z_{-55℃}$ / $Z_{+20℃}$ ≤1.25
Endurance	**1000h,Rated voltage applied at 105℃** Capacitance change:within±20% of the initial measured value Dissipation Factor (Tan δ): ≤The initial specified value ESR：≤The initial specified value
Damp heat(Steady state)	**500h,No-applied voltage 60℃,90~95% RH** Dissipation Factor (Tan δ): ≤200% of initial specified value LC※1: ≤The initial specified value △ C/C:-20%~+70% of the initial value (2 Vdc) -20%~+60% of the initial value (4 Vdc) -20%~+50% of the initial value (6.3 Vdc) -20%~+40% of the initial value (10 to 16 Vdc)

※ 1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105℃.

Dimensions mm



ESR-Size list

UR[S.V](V) / Cap.(μF)	2 [2.5]	4 [5.0]	6.3 [7.9]	10 [13]	12.5 [16]	16 [20]
10						45V
22				28V	35V	
27				28V		
33			28V	28V		
47		28V	28V,18V	18V		
56		28V	28V	18D		
68		25V	25V,18V	18D		
82		25V	18D			
100		25V	18V			
120	25V,18V	18D	18D			
150	25V	18D	15D,12D			
180	18V		12D			
220	18V,12V					
270	15D					
330	15D,12D,9D					

(unit: mm)

Size Code		L±	W1±	H±	P±	W2±
Jianghai	EIA	0.3	0.3	0.3	0.3	0.1
V	7343-21	7.3	4.3	1.8	1.3	2.4
D	7343-31	7.3	4.3	2.8	1.3	2.4

Ratings for HPA Series

U_R Code	Rated Capacitance 20℃, 120Hz	Max ESR 20℃, 100kHz	Rated Ripple Current 105℃, 100kHz	Dissipation Factor 20℃, 120Hz	Leakage Current 20℃,2min	Size Code	P/N
(v)	(μF)	(mΩ)	(mArms)	(%)	(μA)	-	-
2 (0D)	120	25	3,300	6	9.6	V	PCP0DPA121M25V□□
	120	18	3,700	6	9.6	V	PCP0DPA121M18V□□
	150	25	3,300	6	12.0	V	PCP0DPA151M25V□□
	180	18	3,700	6	14.4	V	PCP0DPA181M18V□□
	220	18	3,700	6	17.6	V	PCP0DPA221M18V□□
	220	12	4,300	6	17.6	V	PCP0DPA221M12V□□
	270	15	3,900	6	21.6	D	PCP0DPA271M15D□□
	330	15	3,900	6	26.4	D	PCP0DPA331M15D□□
	330	12	4,300	6	26.4	D	PCP0DPA331M12D□□
	330	9	5,400	6	26.4	D	PCP0DPA331M09D□□
4 (0G)	47	28	3,100	6	7.5	V	PCP0GPA470M28V□□
	56	28	3,100	6	9.0	V	PCP0GPA560M28V□□
	68	25	3,300	6	10.9	V	PCP0GPA680M25V□□
	82	25	3,300	6	13.1	V	PCP0GPA820M25V□□
	100	25	3,300	6	16.0	V	PCP0GPA101M25V□□
	120	18	3,700	6	19.2	D	PCP0GPA121M18D□□
	150	18	3,700	6	24.0	D	PCP0GPA151M18D□□
6.3 (0J)	33	28	3,100	6	8.3	V	PCP0JPA330M28V□□
	47	28	3,100	6	11.8	V	PCP0JPA470M28V□□
	47	18	3,700	6	11.8	V	PCP0JPA470M18V□□
	56	28	3,100	6	14.1	V	PCP0JPA560M28V□□
	68	25	3,300	6	17.1	V	PCP0JPA680M25V□□
	68	18	3,700	6	17.1	V	PCP0JPA680M18V□□
	100	18	3,700	6	25.2	V	PCP0JPA101M18V□□
	82	18	3,700	6	20.7	D	PCP0JPA820M18D□□
	120	18	3,700	6	30.2	D	PCP0JPA121M18D□□
	150	15	3,900	6	37.8	D	PCP0JPA151M15D□□
	150	12	4,300	6	37.8	D	PCP0JPA151M12D□□
	180	12	4,300	6	45.4	D	PCP0JPA181M12D□□
10 (1A)	22	28	3,100	6	8.8	V	PCP1APA220M28V□□
	27	28	3,100	6	10.8	V	PCP1APA270M28V□□
	33	28	3,100	6	13.2	V	PCP1APA330M28V□□
	47	18	3,700	6	18.8	V	PCP1APA470M18V□□
	56	18	3,700	6	22.4	D	PCP1APA560M18D□□
	68	18	3,700	6	27.2	D	PCP1APA680M18D□□
12.5 (1B)	22	35	1,600	6	27.5	V	PCP1BPA220M35V□□
16 (1C)	10	45	1,400	6	16.0	V	PCP1CPA100M45V□□

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