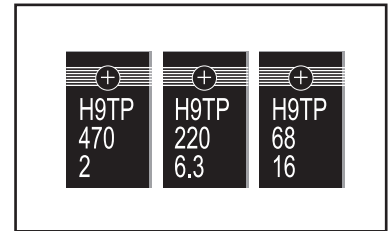


- Multi-layers conductive polymeraluminum solidcapacitor(plastic mold)
- Reliability:105°C, 2000H
- LowESR, High ripplecurrentcapability, LowESL
RoHSCompliant and lead-free
- Application: Notebook, DC/DC Converter, Switching PowerSupply, BackupPowerSuppliesforCPUetc.

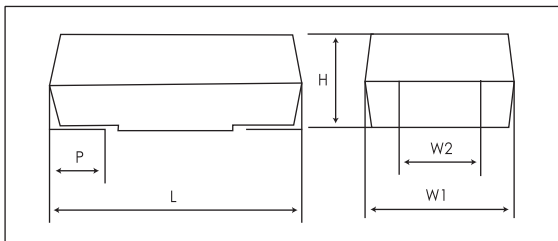


Specifications

Items	Characteristics
Operating Temperature Range (°C)	-55 ~ +105
Voltage Range (V)	2 ~ 16
Capacitance Range (μF) (20°C, 120Hz)	6.8 ~ 470
Capacitance Tolerance (20°C, 120Hz)	± 20%
Surge Voltage	$U_R \times 1.25$
Leakage Current (μA) ※1	$I \leq 0.1CV [< 8Vdc], I \leq 0.3CV [\geq 8Vdc]$
Dissipation Factor Tanδ(20°C, 120Hz)	≤ 6%
Equivalent Series Resistance (20°C, 100kHz)	Please see the attached ratings list
Temperature Characteristics (Max Impedance Ratio at 100kHz)	$Z_{+105^\circ C} / Z_{+20^\circ C} \leq 1.25$ $Z_{-55^\circ C} / Z_{+20^\circ C} \leq 1.25$
Endurance	2000h, applied rated voltage at 105°C Capacitance change: within ± 20% of the initial measured value Dissipation Factor (Tanδ): ≤ 200% of the initial specified value LC: ≤ 300% of the initial specified value [< 8Vdc] ≤ the initial specified value [≥ 8Vdc]
Humidity Test	500h, applied rated voltage at 60°C, 90~95% RH ΔC/C: -20%~+70% of the initial value (2-2.5 Vdc) -20%~+60% of the initial value (4 Vdc) -20%~+50% of the initial value (6.3 Vdc) -20%~+60% of the initial value (8 to 16 Vdc) Dissipation Factor (Tanδ): ≤ 200% of initial specified value LC: ≤ the initial specified value [< 8Vdc] ≤ 300% of the initial specified value [≥ 8Vdc]

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

Dimensions mm



(unit:mm)

Size Code		L	W1	W2	H	P±0.3	W2±0.1
Jianghai	EIA						
V	7343-21	7.3	4.3	4.3	1.9	1.3	2.4
D	7343-31	7.3	4.3	4.3	2.8	1.3	2.4

Ratings for HPA Series

Size: V

U _R Code	Rated Capacitance 20°C,120Hz	Max ESR 20°C,100kHz	Rated Ripple Current 105°C,100kHz	Dissipation Factor 20°C,120Hz	Leakage Current 20°C,2min	Size Code	P/N
(V)	(μF)	(mΩ)	(mA)	(%)	(μA)	-	-
2	100	16	4900	6	20.0	V	PCP0DPA101M16V □□
2	150	9	6300	6	30.0	V	PCP0DPA151M09V □□
2	220	9	6300	6	44.0	V	PCP0DPA221M09V □□
2	270	9	6300	6	54.0	V	PCP0DPA271M09V □□
2	330	7	7000	6	66.0	V	PCP0DPA331M07V □□
2	330	9	6300	6	66.0	V	PCP0DPA331M09V □□
2	470	4.5	8500	6	94.0	V	PCP0DPA471M04V □□
2	470	6	7500	6	94.0	V	PCP0DPA471M06V □□
2	470	9	6300	6	94.0	V	PCP0DPA471M09V □□
2.5	100	16	4900	6	25.0	V	PCP0EPA101M16V □□
2.5	150	9	6300	6	37.5	V	PCP0EPA151M09V □□
2.5	220	9	6300	6	55.0	V	PCP0EPA221M09V □□
2.5	270	9	6300	6	67.5	V	PCP0EPA271M09V □□
2.5	330	9	6300	6	82.5	V	PCP0EPA331M09V □□
4	68	20	4400	6	27.2	V	PCP0GPA680M20V □□
4	82	16	4900	6	32.8	V	PCP0GPA820M16V □□
4	150	16	4900	6	60.0	V	PCP0GPA151M16V □□
6.3	10	55	2700	6	6.3	V	PCP0JPA100M55V □□
6.3	22	45	3000	6	13.9	V	PCP0JPA220M45V □□
6.3	33	25	3900	6	20.8	V	PCP0JPA330M25V □□
6.3	47	25	3900	6	29.6	V	PCP0JPA470M25V □□
6.3	68	15	5100	6	42.8	V	PCP0JPA680M15V □□
6.3	100	15	5100	6	63.0	V	PCP0JPA101M15V □□
6.3	150	9	6300	6	94.5	V	PCP0JPA151M09V □□
6.3	150	15	5100	6	94.5	V	PCP0JPA151M15V □□
6.3	220	9	6300	6	138.6	V	PCP0JPA221M09V □□
6.3	220	15	5100	6	138.6	V	PCP0JPA221M15V □□
8	150	10	6000	6	360.0	V	PCP0KPA151M10V □□
8	200	12	5600	6	480.0	V	PCP0KPA201M12V □□
10	10	55	2700	6	30.0	V	PCP1APA100M55V □□
10	22	28	3700	6	66.0	V	PCP1APA220M28V □□
10	33	25	3900	6	99.0	V	PCP1APA330M25V □□
10	100	15	5100	6	300.0	V	PCP1APA101M15V □□
12.5	10	55	2700	6	37.5	V	PCP1BPA100M55V □□
12.5	15	45	3000	6	56.3	V	PCP1BPA150M45V □□
12.5	22	30	3600	6	82.5	V	PCP1BPA220M30V □□
12.5	33	25	3900	6	123.8	V	PCP1BPA330M25V □□
12.5	47	20	4400	6	176.3	V	PCP1BPA470M20V □□
12.5	56	15	5100	6	210.0	V	PCP1BPA560M15V □□
12.5	100	12	5600	6	375.0	V	PCP1BPA101M12V □□
16	6.8	70	2400	6	32.6	V	PCP1CPA6R8M70V □□
16	10	60	2600	6	48.0	V	PCP1CPA100M60V □□
16	15	40	3200	6	72.0	V	PCP1CPA150M40V □□
16	22	30	3600	6	105.6	V	PCP1CPA220M30V □□
16	33	30	3600	6	158.4	V	PCP1CPA330M30V □□
16	47	55	2700	6	225.6	V	PCP1CPA470M55V □□
16	68	30	3600	6	326.4	V	PCP1CPA680M30V □□

※ 2 Rated Ripple current: 100KHz / +45°C, Temp coefficient as below:

Temp	T < 45°C	45 °C < T < 85°C	85 °C < T < 105°C
coef	1.0	0.7	0.25

Ratings for HPA Series

Size: D

U _R Code	Rated Capacitance 20°C,120Hz	Max ESR 20°C,100kHz	Rated Ripple Current 105°C,100kHz	Dissipation Factor 20°C,120Hz	Leakage Current 20°C,2min	Size Code	P/N
(V)	(μF)	(mΩ)	(mA)	(%)	(μA)	-	-
2	100	16	4900	6	20.0	D	PCP0DPA101M16D □□
2	150	9	6300	6	30.0	D	PCP0DPA151M09D □□
2	220	9	6300	6	44.0	D	PCP0DPA221M09D □□
2	270	9	6300	6	54.0	D	PCP0DPA271M09D □□
2	330	7	7000	6	66.0	D	PCP0DPA331M07D □□
2	330	9	6300	6	66.0	D	PCP0DPA331M09D □□
2	470	4.5	8500	6	94.0	D	PCP0DPA471M04D □□
2	470	6	7500	6	94.0	D	PCP0DPA471M06D □□
2	470	9	6300	6	94.0	D	PCP0DPA471M09D □□
2.5	100	16	4900	6	25.0	D	PCP0EPA101M16D □□
2.5	150	9	6300	6	37.5	D	PCP0EPA151M09D □□
2.5	180	12	5600	6	45.0	D	PCP0EPA181M12D □□
2.5	220	9	6300	6	55.0	D	PCP0EPA221M09D □□
2.5	270	9	6300	6	67.5	D	PCP0EPA271M09D □□
2.5	330	7	7000	6	82.5	D	PCP0EPA331M07D □□
2.5	330	9	6300	6	82.5	D	PCP0EPA331M09D □□
2.5	470	4.5	8500	6	117.5	D	PCP0EPA471M04D □□
2.5	470	6	7500	6	117.5	D	PCP0EPA471M06D □□
2.5	470	9	6300	6	117.5	D	PCP0EPA471M09D □□
4	68	20	4400	6	27.2	D	PCP0GPA680M20D □□
4	82	16	4900	6	32.8	D	PCP0GPA820M16D □□
4	150	18	4600	6	60.0	D	PCP0GPA151M18D □□
6.3	10	55	2700	6	6.3	D	PCP0JPA100M55D □□
6.3	22	45	3000	6	13.9	D	PCP0JPA220M45D □□
6.3	33	25	3900	6	20.8	D	PCP0JPA330M25D □□
6.3	47	25	3900	6	29.6	D	PCP0JPA470M25D □□
6.3	68	15	5100	6	42.8	D	PCP0JPA680M15D □□
6.3	100	15	5100	6	63.0	D	PCP0JPA101M15D □□
6.3	150	10	6000	6	94.5	D	PCP0JPA151M10D □□
6.3	150	15	5100	6	94.5	D	PCP0JPA151M15D □□
6.3	220	10	6000	6	138.6	D	PCP0JPA221M10D □□
6.3	220	15	5100	6	138.6	D	PCP0JPA221M15D □□
8	150	10	6000	6	360.0	D	PCP0KPA151M10D □□
8	200	12	5600	6	480.0	D	PCP0KPA201M12D □□
10	10	55	2700	6	30.0	D	PCP1APA100M55D □□
10	22	28	3700	6	66.0	D	PCP1APA220M28D □□
10	33	25	3900	6	99.0	D	PCP1APA330M25D □□
10	68	15	5100	6	204.0	D	PCP1APA680M15D □□
10	100	15	5100	6	300.0	D	PCP1APA101M15D □□
12.5	10	55	2700	6	37.5	D	PCP1BPA100M55D □□
12.5	15	45	3000	6	56.3	D	PCP1BPA150M45D □□
12.5	22	30	3600	6	82.5	D	PCP1BPA220M30D □□
12.5	33	25	3900	6	123.8	D	PCP1BPA330M25D □□
12.5	47	20	4400	6	176.3	D	PCP1BPA470M20D □□
12.5	56	15	5100	6	210.0	D	PCP1BPA560M15D □□
12.5	100	12	5600	6	375.0	D	PCP1BPA101M12D □□
16	6.8	70	2400	6	32.6	D	PCP1CPA68M70D □□
16	10	60	2600	6	48.0	D	PCP1CPA100M60D □□
16	15	40	3200	6	72.0	D	PCP1CPA150M40D □□
16	22	30	3600	6	105.6	D	PCP1CPA220M30D □□
16	33	30	3600	6	158.4	D	PCP1CPA330M30D □□
16	47	30	3600	6	225.6	D	PCP1CPA470M30D □□
16	68	30	3600	6	326.4	D	PCP1CPA680M30D □□
16	100	25	3900	6	480.0	D	PCP1CPA101M25D □□

※ 2 Rated Ripple current: 100KHz / +45°C, Temp coefficient as below: