

# HPD19 series, Laminated polymer solid aluminum electrolytic capacitor

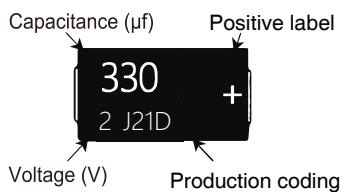
- ◆ Low ESR, High ripple current
- ◆ 105°C 2000H guaranteed.
- ◆ High pressure products ( 50Vmax)
- ◆ RoHS directive ( 2011/65/EU ) corresponding.



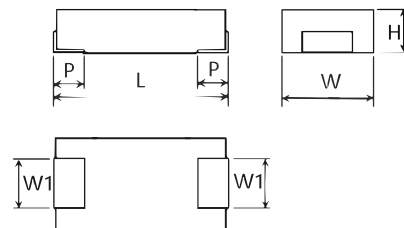
## ■ Specifications

Items	Characteristics	
Operation Temperature Range	-55°C ~ + 105°C	
Voltage Range	2-50V	
Capacitance Range	8.2-560μF 120Hz/20°C	
Capacitance Tolerance	± 20% (120Hz/20°C)	
Dissipation Factor (tanδ)	≤Specified value at 120Hz/20°C	
Leakage Current	1≤0.1C Vrated voltage for 2 minutes at 20°C	
ESR	≤Specified value at 100 KHz/20°C	
surge voltage ( V )	1.15 times the rated voltage	
Endurance	After 2000 hours application of the rated voltage at 105°C, and after 16 hours at 20°C , the product should be satisfied	
	Capacitance Change	Within ± 20% of initial value .
	Dissipation Factor	<200% or less of initial specified value.
	Leakage Current	<Initial specification value
Hot and humid environment	After 1000 hours at 60°C temperature, 90%~95%R.H humidity conditions, no voltage is applied, and 16 hours at 20°C, the product should meet.	
	Capacitance Change	+50% to -20% of the initial value
	Dissipation Factor	<200% or less of initial specified value.
	Leakage Current	<Initial specification value

## ■ DRAWING



## ■ DIMENSIONS (Unit: mm)



L±0.2	W±0.2	H±0.1	W1±0.1	P±2.1
7.3	4.3	1.9	2.4	1.3

## ■ Temperature coefficient of rated ripple current

Temperature	T ≤ 45°C	45°C < T ≤ 85°C	85°C < T ≤ 105°C
Coefficient	1.0	0.7	0.25

Note: The surface temperature of the capacitor does not exceed the maximum operating temperature of the product

## ■ Rated ripple current frequency correction factor

Frequency (Hz)	120Hz	1KHz	10KHz	100-300KHz
Correction factor	0.10	0.45	0.50	1.00

## ■ DIMENSIONS & STANDARD RATINGS

Rated Voltage	Cap (uF)	Size(mm)			L.C. (μA, 2min)	Tanδ 120Hz	ESR (mΩ100kHz)	Rated ripple current	
		L	W	H					
2	82	7.3	4.3	1.9	16.4	0.06	15	5100	
	180	7.3	4.3	1.9	36	0.06	12	5600	
	220	7.3	4.3	1.9	44	0.06	9	6300	
	270	7.3	4.3	1.9	54	0.06	9	6300	
	330	7.3	4.3	1.9	66	0.06	9	6300	
		7.3	4.3	1.9	66	0.06	6	7500	
		7.3	4.3	1.9	66	0.06	4.5	8500	
	390	7.3	4.3	1.9	78	0.06	9	6300	
		7.3	4.3	1.9	78	0.06	6	7500	
		7.3	4.3	1.9	78	0.06	4.5	8500	
	470	7.3	4.3	1.9	94	0.06	9	6300	
		7.3	4.3	1.9	94	0.06	6	7500	
		7.3	4.3	1.9	94	0.06	4.5	8500	
	560	7.3	4.3	1.9	112	0.06	9	6300	
		7.3	4.3	1.9	112	0.06	6	7500	
		7.3	4.3	1.9	112	0.06	4.5	8500	
	2.5	68	7.3	4.3	1.9	17	0.06	15	5100
		150	7.3	4.3	1.9	38	0.06	12	5600
220		7.3	4.3	1.9	55	0.06	9	6300	
227		7.3	4.3	1.9	68	0.06	9	6300	
330		7.3	4.3	1.9	83	0.06	9	6300	
		7.3	4.3	1.9	83	0.06	6	7500	
		7.3	4.3	1.9	83	0.06	4.5	8500	
390		7.3	4.3	1.9	98	0.06	9	6300	
		7.3	4.3	1.9	98	0.06	6	7500	
		7.3	4.3	1.9	98	0.06	4.5	8500	
470		7.3	4.3	1.9	118	0.06	9	6300	
		7.3	4.3	1.9	118	0.06	6	7500	
		7.3	4.3	1.9	118	0.06	4.5	8500	
4		47	7.3	4.3	1.9	188	0.06	20	4200
		100	7.3	4.3	1.9	40	0.06	12	5600
	150	7.3	4.3	1.9	60	0.06	9	6300	
		7.3	4.3	1.9	60	0.06	7	7000	
	220	7.3	4.3	1.9	88	0.06	9	6300	
		7.3	4.3	1.9	88	0.06	7	7000	
	270	7.3	4.3	1.9	108	0.06	9	6300	
		7.3	4.3	1.9	108	0.06	7	7000	
6.3	33	7.3	4.3	1.9	21	0.06	20	4200	
	68	7.3	4.3	1.9	43	0.06	15	5100	
	100	7.3	4.3	1.9	63	0.06	12	5600	
	150	7.3	4.3	1.9	95	0.06	9	6300	
	180	7.3	4.3	1.9	113	0.06	9	6300	
	220	7.3	4.3	1.9	139	0.06	9	6300	
10	22	7.3	4.3	1.9	22	0.06	20	4200	
	39	7.3	4.3	1.9	39	0.06	18	4600	
	68	7.3	4.3	1.9	68	0.06	15	5100	
	82	7.3	4.3	1.9	82	0.06	12	5600	
	100	7.3	4.3	1.9	100	0.06	10	5900	
16	15	7.3	4.3	1.9	24	0.06	70	2400	

Rated Voltage	Cap (µF)	Size(mm)			L.C. (µA, 2min)	Tans 120Hz	ESR (mΩ100kHz)	Rated ripple current
		L	W	H				
16	15	7.3	4.3	1.9	24	0.06	70	2400
	33	7.3	4.3	1.9	53	0.06	50	2850
	47	7.3	4.3	1.9	75	0.06	40	3200
	68	7.3	4.3	1.9	109	0.06	30	3500
	82	7.3	4.3	1.9	131	0.06	25	3800
	100	7.3	4.3	1.9	160	0.06	20	4200
20	10	7.3	4.3	1.9	20	0.06	80	2200
	22	7.3	4.3	1.9	44	0.06	65	2500
	33	7.3	4.3	1.9	66	0.06	45	3000
	47	7.3	4.3	1.9	94	0.06	35	3300
	56	7.3	4.3	1.9	112	0.06	30	3500
	68	7.3	4.3	1.9	136	0.06	25	3800
25	10	7.3	4.3	1.9	25	0.06	80	2200
	22	7.3	4.3	1.9	55	0.06	65	2500
	33	7.3	4.3	1.9	83	0.06	45	3000
	39	7.3	4.3	1.9	98	0.06	35	3300
	47	7.3	4.3	1.9	117.5	0.06	30	3500
	56	7.3	4.3	1.9	140	0.06	25	3800
	68	7.3	4.3	1.9	170	0.06	20	4200
35	15	7.3	4.3	1.9	53	0.06	60	2700
	22	7.3	4.3	1.9	77	0.06	50	2850
	33	7.3	4.3	1.9	115.5	0.06	30	3200
50	8.2	7.3	4.3	1.9	41	0.06	55	2700
	10	7.3	4.3	1.9	50	0.06	45	3000

### ◆ How to order

<b>HPD19</b>	<b>106</b>	<b>M</b>	<b>00350</b>	<b>0704</b>	<b>R</b>	<b>-</b>
↓	↓	↓	↓	↓	↓	↓
<u>Type</u>	<u>Capacitance code</u>	<u>Tolerance</u>	<u>Rated Voltage</u>	<u>Size Code</u>	<u>Package</u>	<u>Additional characters may be added for special requirements</u>
HPD19	pF Code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) 106= 10uF 107= 100uF	M: +/-20%	Code 00350: 35VDC For DC Voltage 00020: 2.0VDC 00025: 2.5VDC 00063: 6.3VDC 00350: 35VDC	Code 0704: Size 7.3x4.3mm	R: Tape & Reel	



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