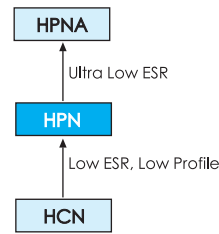


- Low ESR, Low profile 105°C, 2000 hours.
- Ultra Low ESR, high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant

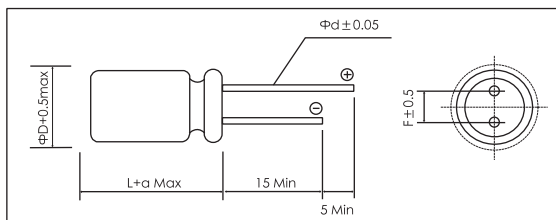


Items	Characteristics
Operating Temperature Range (°C)	-55 ~ +105
Voltage Range (V)	2.5 ~ 16
Capacitance Range (μF) (20°C, 120Hz)	150 ~ 1000
Capacitance Tolerance (20°C, 120Hz)	± 20%
Surge Voltage	Rated Voltage(V) × 1.15
Leakage Current (μA) ※1	Please see attached ratings list (20°C, 2min)
Dissipation Factor (20°C, 120Hz)	Please see attached ratings list
Equivalent Series Resistance (20°C, 100kHz)	Please see attached ratings list
Temperature Characteristics (Max Impedance Ratio at 100kHz)	$\frac{Z_{+105^\circ\text{C}}}{Z_{+20^\circ\text{C}}} \leq 1.25$ $\frac{Z_{-55^\circ\text{C}}}{Z_{+20^\circ\text{C}}} \leq 1.25$
Endurance	<b>2000h, Rated voltage applied at 105°C</b> Capacitance change: within ± 20% of the initial measured value Dissipation Factor (Tan δ): ≤ 150% of initial specified value ESR: ≤ 150% of initial specified value DC Leakage Current: ≤ the initial specified value
Damp heat(Steady state)	<b>1000h, No-applied voltage 60°C, 90-95% RH</b> Capacitance change: within ± 20% of the initial measured value Dissipation Factor (Tan δ): ≤ 150% of initial specified value ESR: ≤ 150% of initial specified value DC Leakage Current: ≤ the initial specified value (after voltage processing)
Resistance to soldering heat	<b>Flow method (260±5°C × 10s)</b> Capacitance change: within ± 5% of the initial measured value Dissipation Factor (Tan δ): ≤ the initial specified value ESR: ≤ the initial specified value DC Leakage Current: ≤ the initial specified value (after voltage processing)

※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	ΦD±0.5	L	αmax	F±0.5	Φd±0.05
F08	6.3	8.0	1.0	2.5	0.5
B08	8.0	8.0	1.5	3.5	0.6

## Size List

Cap.(μF)	U <sub>r</sub> [S.V] (V)	2.5 [2.9]	4 [4.6]	6.3 [7.2]	10 [12]	16 [18]
150						F08,B08
180						B08
220						B08
270					F08	B08
330					B08	B08
390					B08	
470				F08,B08	B08	
560		B08	B08	B08	B08	
680		B08	B08	B08		
820		B08	B08	B08		
1000		B08		B08		

## Ratings for HPN Series

U <sub>r</sub> 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 ΦD x L	P/N
(V)	(μF)	(mΩ)	(mA <sub>rms</sub> )	(%)	(μA)	(mm)	-
2.5 OE	560	7	6100	8	500.0	8×8	PCR0EHN561MB08□□
	680	7	6100	8	500.0	8×8	PCR0EHN681MB08□□
	820	7	6100	8	500.0	8×8	PCR0EHN821MB08□□
	1000	7	6100	8	500.0	8×8	PCR0EHN102MB08□□
4 OG	560	7	6100	8	500.0	8×8	PCR0GHN561MB08□□
	680	7	6100	8	544.0	8×8	PCR0GHN681MB08□□
	820	7	6100	8	656.0	8×8	PCR0GHN821MB08□□
6.3 OJ	470	8	4700	10	592.2	6.3×8	PCR0JHN471MF08□□
	470	8	5700	8	592.2	8×8	PCR0JHN471MB08□□
	560	8	5700	8	705.6	8×8	PCR0JHN561MB08□□
	680	8	5700	8	856.8	8×8	PCR0JHN681MB08□□
	820	8	5700	8	1033.2	8×8	PCR0JHN821MB08□□
	1000	8	5700	8	1260.0	8×8	PCR0JHN102MB08□□
10 1A	270	15	3820	8	540.0	6.3×8	PCR1AHN271MF08□□
	330	10	5000	8	660.0	8×8	PCR1AHN331MB08□□
	390	10	5000	8	780.0	8×8	PCR1AHN391MB08□□
	470	8	5700	8	940.0	8×8	PCR1AHN471MB08□□
	560	8	5700	8	1120.0	8×8	PCR1AHN561MB08□□
16 1C	150	15	3820	8	480.0	6.3×8	PCR1CHN151MF08□□
	150	15	4080	8	480.0	8×8	PCR1CHN151MB08□□
	180	10	5000	8	576.0	8×8	PCR1CHN181MB08□□
	220	10	5000	8	704.0	8×8	PCR1CHN221MB08□□
	270	10	5000	8	864.0	8×8	PCR1CHN271MB08□□
	330	10	5000	8	1056.0	8×8	PCR1CHN331MB08□□

Customer products are available on request.

## Frequency coefficient for ripple current

Frequency	120Hz ≤ f < 1kHz	1kHz ≤ f < 10kHz	10kHz ≤ f < 100kHz	100kHz ≤ f < 500kHz
Coefficient	0.05	0.3	0.7	1