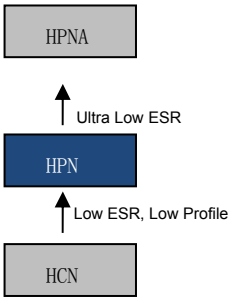
HPN Series

- Low ESR, Large 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

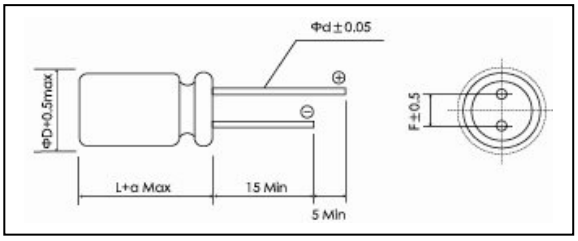


Items	Characteristics
Operating Temperature Range (°C)	-55 ~+105
Voltage Range (V)	2.5 ~ 16
Capacitance Range (μF) (20°C, 120Hz)	150~1000
Capacitance Tolerance (20°C, 120Hz)	± 20%
Surge Voltage	U_R x 1.15
Leakage Current (μA) ※1	Please see the attached ratings list (20°C,2min)
Dissipation Factor (20°C, 120Hz)	Please see the attached ratings list
Equivalent Series Resistance(20°C, 100kHz)	Please see the attached ratings list
Temperature Characteristics (Max Impedance Ratio at 100kHz)	$Z_{+105°C}/Z_{+20°C} \leqslant 1.25$ $Z_{-55°C} / Z_{+20°C} \leqslant 1.25$
Endurance	**2000h, Rated voltage applied at 105°C** 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)	**1000h, No-applied voltage 60°C ,90~95% RH** 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	**Flow method (260 ± 5°C x 10s)** 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	amax	F±0.5	Φd±0.05
F08	6.3	8.0	1.0	2.5	0.5
B08	8.0	8.0	1.0	3.5	0.6

Size List

U_R [S.V] (V) / Cap.(μF)	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		
680	B08	B08	B08		
820	B08	B08	B08		
1,000	B08				

Ratings for HPN 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 ΦD×L	P/N
(v)	(μF)	(mΩ)	(mArms)	(%)	(μA)	(mm)	-
2.5 0E	560	7	6100	8	500.0	8x8	PCR0EHN561MB08□□
	680	7	6100	8	500.0	8X8	PCR0EHN681MB08□□
	820	7	6100	8	500.0	8X8	PCR0EHN821MB08□□
	1000	7	6100	8	500.0	8x8	PCR0EHN102MB08□□
4 0G	560	7	6100	8	500.0	8x8	PCR0GH N561MB08□□
	680	7	6100	8	544.0	8X8	PCR0GHN681MB08□□
	820	7	6100	8	656.0	8x8	PCR0GHN821MB08□□
6.3 0J	470	8	4700	10	592.2	6.3x8	PCR0JHN471MF08□□
	470	8	5700	8	592.2	8X8	PCR0JHN471MB08□□
	560	8	5700	8	705.6	8x8	PCR0JHN561MB08□□
	680	8	5700	8	856.8	8x8	PCR0JHN681MB08□□
	820	8	5700	8	1033.2	8x8	PCR0JHN821MB08□□
10 1A	270	15	3820	8	540.0	6.3x8	PCR1AHN271MF08□□
	330	10	5000	8	660.0	8x8	PCR1AHN331MB08□□
	390	10	5000	8	780.0	8x8	PCR1AHN391MB08□□
	470	8	5700	8	940.0	8X8	PCR1AHN471MB08□□
16 1C	150	15	3820	8	480.0	6.3x8	PCR1CHN151MF08□□
	150	15	4080	8	480.0	8x8	PCR1CHN151MB08□□
	180	10	5000	8	576.0	8X8	PCR1CHN181MB08□□
	220	10	5000	8	704.0	8X8	PCR1CHN221MB08□□
	270	10	5000	8	864.0	8x8	PCR1CHN271MB08□□
	330	10	5000	8	1056.0	8x8	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

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