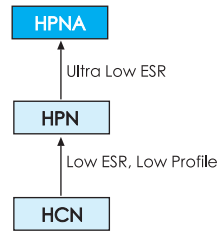


- Ultra Low ESR, Low Profile 105°C, 2000 hours
- High ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant



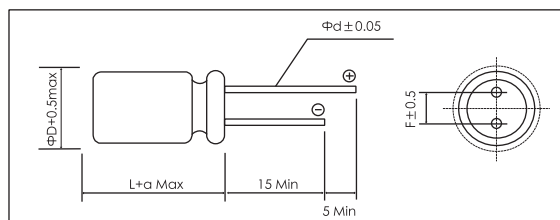
Items	Characteristics
Operating Temperature Range (°C)	-55 ~ +105
Voltage Range (V)	2.5 ~ 6.3
Capacitance Range (μF) (20°C, 120Hz)	470 ~ 1000
Capacitance Tolerance (20°C, 120Hz)	± 20%
Surge Voltage	Rated Voltage(V) x 1.15
Leakage Current (μA) ※1	Please see attached ratings list (20°C, 2min)
Dissipation 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)	$Z_{+105°C} / Z_{+20°C} \leq 1.25$ $Z_{-55°C} / Z_{+20°C} \leq 1.25$
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 x 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

## Size List



(unit:mm)

Size Code	ΦD±0.5	L	amax	F±0.5	Φd±0.05
B08	8.0	8	1.5	3.5	0.6

Cap.(μF)	U <sub>r</sub> [S.V] (V)		
	2.5 [2.9]	4 [4.6]	6.3 [7.2]
470			B08
560	B08	B08	B08
680		B08	
820	B08	B08	
1000	B08		

## 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

## Ratings for HPNA 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 Φ D x L	P/N
(V)	(μF)	(mΩ)	(mA <sub>rms</sub> )	(%)	(μA)	(mm)	-
2.5 OE	560	6	6100	8	500.0	8×8	PCROENA561MB08□□
	820	6	6100	8	500.0	8×8	PCROENA821MB08□□
	1000	6	6100	8	500.0	8×8	PCROENA102MB08□□
4 OG	560	6	6100	8	500.0	8×8	PCROGNA561MB08□□
	680	6	6100	8	544.0	8×8	PCROGNA681MB08□□
	820	6	6100	8	656.0	8×8	PCROGNA821MB08□□
6.3 OJ	470	7	6100	8	592.2	8×8	PCROJNA471MB08□□
	560	7	6100	8	705.6	8×8	PCROJNA561MB08□□

Customer products are available on request.