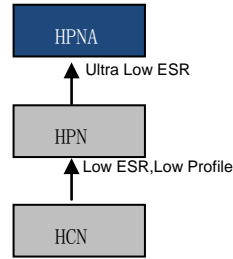


HPNA Series



- 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

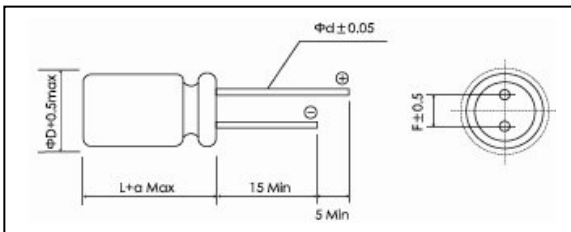


Items	Characteristics
Operating Temperature Range (°C)	-55 ~ +105
Voltage Range (V)	2.5 ~ 6.3
Capacitance Range (μF) (20°C, 120Hz)	470~1000
Capacitance Tolerance (20°C, 120Hz)	± 20%
Surge Voltage	URx1.15
Leakage Current (μA) ※1	Please see the attached ratings list (20°C, 2min)
Dissipation Factor (20°C, 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)	$Z(+105^{\circ}\text{C})/Z(+20^{\circ}\text{C}) \leq 1.25$ $Z(-55^{\circ}\text{C})/Z(+20^{\circ}\text{C}) \leq 1.25$
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
B08	8.0	8.0	1.0	3.5	0.6

Size List

Cap.(μF)	Ur [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	
1,000	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

Ur 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×L	P/N
(v)	(μF)	(mΩ)	(mArms)	(%)	(μA)	(mm)	-
2.5 0E	560	6	6,100	8	500.0	8x8	PCR0ENA561MB08□□
	820	6	6,100	8	500.0	8x8	PCR0ENA821MB08□□
	1,000	6	6,100	8	500.0	8x8	PCR0ENA102MB08□□
4 0G	560	6	6,100	8	500.0	8x8	PCR0GNA561MB08□□
	680	6	6,100	8	544.0	8x8	PCR0GNA681MB08□□
	820	6	6,100	8	656.0	8x8	PCR0GNA821MB08□□
6.3 0J	470	7	6,100	8	592.2	8x8	PCR0JNA471MB08□□
	560	7	6,100	8	705.6	8x8	PCR0JNA561MB08□□

Customer products are available on request.