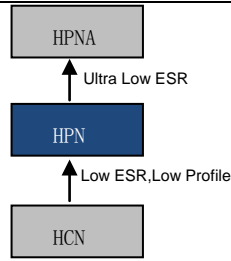


- Low ESR, Large profile 105°C, 2000 hours.
- Ultra Low ESR, high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- ROHS Compliant



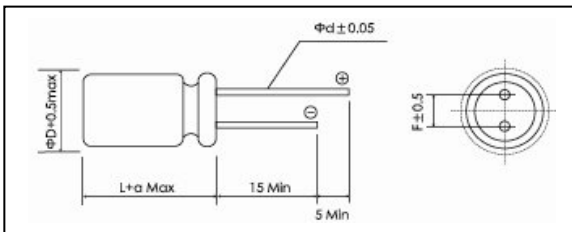
Items	Characteristics
Operating Temperature Range (°C)	-55 ~ +105
Voltage Range (V)	2.5 ~ 16
Capacitance Range (μF) (20°C, 120Hz)	150~1000
Capacitance Tolerance (20°C, 120Hz)	± 20%
Surge Voltage	URx1.15
Leakage Current (μA) ※1	Please see the attached ratings list (20°C, 2min)
Dissipation Factor (20°C, 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
F08	6.3	8.0	1.0	2.5	0.6
B08	8.0	8.0	1.0	3.5	0.6

Size List

UR [5.V] (V)	2.5 [2.9]	4 [4.6]	6.3 [7.2]	10 [12]	16 [18]
Cap.(μF)					
150					F08.B08
180					B08
220					B08
270				F08	B08
330				B08	
390				B08	
470			F08.B08	B08	
560	B08	B08	B08		
680	B08	B08	B08		
820	B08	B08	B08		
1,000	B08				

U _R 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)	(mA _{RMS})	(%)	(μA)	(mm)	-
2.5 0E	560	7	6,100	8	500.0	8x8	PCR0EHN561MB08□□
	680	7	6,100	8	500.0	8X8	PCR0EHN681MB08□□
	820	7	6,100	8	500.0	8X8	PCR0EHN821MB08□□
	1.000	7	6,100	8	500.0	8x8	PCR0EHN102MB08□□
4 0G	560	7	6,100	8	500.0	8x8	PCR0GH N561MB08□□
	680	7	6,100	8	544.0	8X8	PCR0GHN681MB08□□
	820	7	6,100	8	656.0	8x8	PCR0GHN821MB08□□
6.3 0J	470	8	4,700	10	592.2	6.3x8	PCR0JHN471MF08□□
	470	8	5,700	8	592.2	8X8	PCR0JHN471MB08□□
	560	8	5,700	8	705.6	8x8	PCR0JHN561MB08□□
	680	8	5,700	8	856.8	8x8	PCR0JHN681MB08□□
	820	8	5,700	8	1,033.2	8x8	PCR0JHN821MB08□□
10 1A	270	15	3,820	8	540.0	6.3x8	PCR1AHN271MF08□□
	330	10	5,000	8	660.0	8x8	PCR1AHN331MB08□□
	390	10	5,000	8	780.0	8x8	PCR1AHN391MB08□□
	470	8	5,700	8	940.0	8X8	PCR1AHN471MB08□□
16 1C	150	15	3,820	8	480.0	6.3x8	PCR1CHN151MF08□□
	150	15	4,080	8	480.0	8x8	PCR1CHN151MB08□□
	180	10	5,000	8	576.0	8X8	PCR1CHN181MB08□□
	220	10	5,000	8	704.0	8X8	PCR1CHN221MB08□□
	270	10	5,000	8	864.0	8x8	PCR1CHN271MB08□□

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