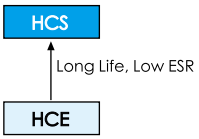
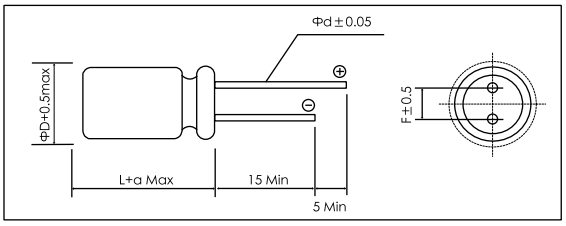
- Long Life, Low ESR, Large Capacitance 105℃, 5000 hours.
- Ultra Low ESR, high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant



Items	Characteristics
Operating Temperature Range (℃)	-55 ~ +105
Voltage Range (V)	2.5 ~ 16
Capacitance Range (μF) (20℃, 120Hz)	100 ~ 2700
Capacitance Tolerance (20℃, 120Hz)	± 20%
Surge Voltage	U_R × 1.15
Leakage Current (μA) ※1	Please see the attached ratings list (20℃, 2min)
Dissipation Factor (20℃, 120Hz)	Please see the attached ratings list
Equivalent Series Resistance (20℃, 100kHz)	Please see the attached ratings list
Temperature Characteristics (Max Impedance Ratio at 100kHz)	$Z_{+105℃} / Z_{+20℃} \leqslant 1.25$ $Z_{-55℃} / Z_{+20℃} \leqslant 1.25$
Endurance	**5000h, Rated voltage applied at 105℃** 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℃, 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℃×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℃.

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	1.5	3.5	0.6
BAB	8.0	11.5	1.5	3.5	0.6
CAC	10.0	12.5	1.5	5.0	0.6

Size List

Cap.(μF) \ U_R [S.V] (V)	2.5 [2.9]	4 [4.6]	6.3 [7.2]	10 [12]	16 [18]
100					F08
180					B08.BAB
270					B08.BAB
330	F08			B08	
390			B08		
470			F08.B08.BAB	BAB	CAC
560	F08.B08	F08.B08.BAB	F08.B08	BAB	
680		BAB	CAC	BAB	
820	F08.B08.BAB	BAB			
1000	B08				
1500			CAC		
2700	CAC				

Ratings for **HCS** 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 x L	P/N
(V)	(μF)	(mΩ)	(mArms)	(%)	(μA)	(mm)	-
2.5 0E	330	7	5600	10	500.0	6.3×8	PCR0ECS331MF08□□
	560	7	5600	10	500.0	6.3×8	PCR0ECS561MF08□□
	820	7	5600	10	500.0	6.3×8	PCR0ECS821MF08□□
	560	8	4700	10	280.0	8×8	PCR0ECS561MB08□□
	820	7	6100	10	500.0	8×8	PCR0ECS821MB08□□
	1000	7	6100	10	500.0	8×8	PCR0ECS102MB08□□
	820	7	6100	10	500.0	8×11.5	PCR0ECS821MBAB□□
	2700	10	5560	10	1350.0	10×12.5	PCR0ECS272MCAC□□
4 0G	560	7	5600	10	500.0	6.3×8	PCR0GCS561MF08□□
	560	7	6100	10	500.0	8×8	PCR0GCS561MB08□□
	560	7	6100	10	500.0	8×11.5	PCR0GCS561MBAB□□
	680	7	6100	10	544.0	8×11.5	PCR0GCS681MBAB□□
	820	7	6640	10	656.0	8×11.5	PCR0GCS821MBAB□□
6.3 0J	470	8	5600	10	592.0	6.3×8	PCR0JCS471MF08□□
	560	8	5600	10	705.0	6.3×8	PCR0JCS561MF08□□
	390	15	3900	10	491.4	8×8	PCR0JCS391MB08□□
	470	8	5700	10	592.2	8×8	PCR0JCS471MB08□□
	560	7	6100	10	705.6	8×8	PCR0JCS561MB08□□
	470	8	5700	10	592.2	8×11.5	PCR0JCS471MBAB□□
	680	7	6640	10	856.8	10×12.5	PCR0JCS681MCAC□□
	1500	10	5560	10	1890.0	10×12.5	PCR0JCS152MCAC□□
10 1A	330	10	5000	10	660.0	8×8	PCR1ACS331MB08□□
	470	11	5100	10	940.0	8×11.5	PCR1ACS471MBAB□□
	560	11	5100	10	1120.0	8×11.5	PCR1ACS561MBAB□□
	680	8	5650	10	1360.0	8×11.5	PCR1ACS681MBAB□□
16 1C	100	10	4680	10	500.0	6.3×8	PCR1CCS101MF08□□
	180	10	5000	10	576.0	8×8	PCR1CCS181MB08□□
	270	10	5000	10	864.0	8×8	PCR1CCS271MB08□□
	180	16	4360	10	576.0	8×11.5	PCR1CCS181MBAB□□
	270	11	5000	10	864.0	8×11.5	PCR1CCS271MBAB□□
	470	10	6100	10	1504.0	10×12.5	PCR1CCS471MCAC□□

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