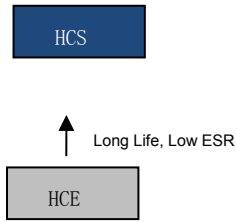


- Long Life, Low ESR, Large Capacitance 105°C,5000 hours.
- Ultra Low ESR, high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- ROHS Compliant



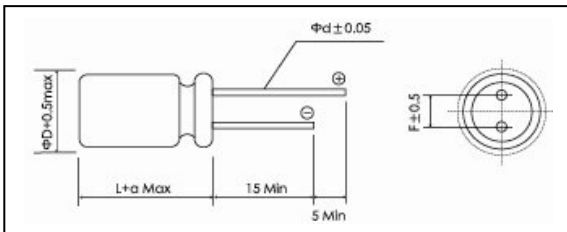
Items	Characteristics
Operating Temperature Range (°C)	-55 ~ +105
Voltage Range (V)	2.5 ~ 16
Capacitance Range (μF) (20°C, 120Hz)	100~2700
Capacitance Tolerance (20°C, 120Hz)	± 20%
Surge Voltage	$U_p \times 1.15$
Leakage Current (μA) ※1	Please see the attached ratings list (20°C, 2min)
Dissipation Factor (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)	$Z_{+105^\circ\text{C}} / Z_{+20^\circ\text{C}} \leq 1.25$ $Z_{-55^\circ\text{C}} / Z_{+20^\circ\text{C}} \leq 1.25$
Endurance	5000h, 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
BAB	8.0	11.5	1.5	3.5	0.6
CAC	10.0	12.5	1.5	5.0	0.6

Size List

UR [S.V] (V) Cap.(μF)	2.5 [2.9]	4 [4.6]	6.3 [7.2]	16 [18]
100				F08
180				B08.BAB
270				B08.BAB
330	F08			
390			B08	
470			F08.B08.BAB	CAC
560	F08.B08	F08.B08.BAB	F08.B08	
680		BAB	CAC	
820	F08.B08.BAB	BAB		
1,000	B08			
1,500			CAC	
2,700	CAC			

Ratings for HCS Series

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	330	7	5,600	10	500.0	6.3x8	PCR0ECS331MF08□□
	560	7	5,600	10	500.0	6.3X8	PCR0ECS561MF08□□
	820	7	5,600	10	500.0	6.3x8	PCROECS821MF08□□
	560	8	4,700	10	280.0	8x8	PCR0ECS561MB08□□
	820	7	6,100	10	500.0	8x8	PCR0ECS821MB08□□
	1,000	7	6,100	10	500.0	8X8	PCR0ECS102MB08□□
	820	7	6,100	10	500.0	8x11.5	PCR0ECS821MBAB□□
	2,700	10	5,560	10	1,350.0	10x12.5	PCR0ECS272MCAC□□
4 0G	560	7	5,600	10	500.0	6.3X8	PCR0GCS561MF08□□
	560	7	6,100	10	500.0	8x8	PCR0GCS561MB08□□
	560	7	6,100	10	500.0	8x11.5	PCR0GCS561MBAB□□
	680	7	6,100	10	544.0	8x11.5	PCR0GCS681MBAB□□
	820	7	6,640	10	656.0	8X11.5	PCR0GCS821MBAB□□
6.3 0J	470	7	5,600	10	592.0	6.3x8	PCR0JCS471MF08□□
	560	7	5,600	10	705.0	6.3x8	PCR0JCS561MF08□□
	390	15	3,900	10	491.4	8X8	PCR0JCS391MB08□□
	470	8	5,700	10	592.2	8x8	PCR0JCS471MB08□□
	560	7	6,100	10	705.6	8x8	PCR0JCS561MB08□□
	470	8	5,700	10	592.2	8x11.5	PCR0JCS471MBAB□□
	680	7	6,640	10	856.8	10X12.5	PCR0JCS681MCAC□□
	1,500	10	5,560	10	1,890.0	10x12.5	PCR0JCS152MCAC□□
16 1C	100	10	4,680	10	500.0	6.3x8	PCR1CCS101MF08□□
	180	10	5,000	10	576.0	8X8	PCR1CCS181MB08□□
	270	10	5,000	10	864.0	8x8	PCR1CCS271MB08□□
	180	16	4,360	10	576.0	8x11.5	PCR1CCS181MBAB□□
	270	11	5,000	10	864.0	8X11.5	PCR1CCS271MBAB□□
	470	10	6,100	10	1,504.0	10x12.5	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