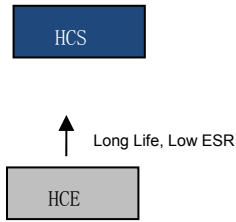


- Long Life, Low ESR, Large Capacitance 105°C, 5000 hours.
- Ultra Low ESR, high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- ROHS Compliant



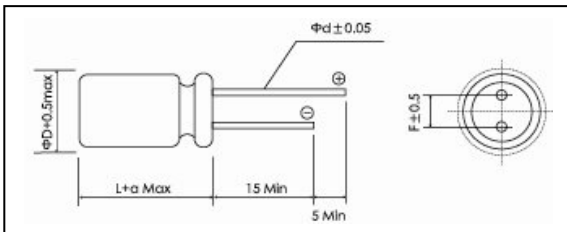
Items	Characteristics
Operating Temperature Range (°C)	-55 ~ +105
Voltage Range (V)	2.5 ~ 16
Capacitance Range (μF) (20°C, 120Hz)	100~2700
Capacitance Tolerance (20°C, 120Hz)	± 20%
Surge Voltage	$U_p \times 1.15$
Leakage Current (μA) ※1	Please see the attached ratings list (20°C, 2min)
Dissipation Factor (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	<b>5000h, 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

(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 <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 ΦD×L	P/N
(V)	(μF)	(mΩ)	(mA <sub>RMS</sub> )	(%)	(μA)	(mm)	-
<b>2.5 0E</b>	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□□
<b>4 0G</b>	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□□
<b>6.3 0J</b>	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□□
<b>16 1C</b>	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

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