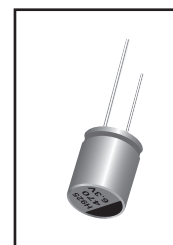
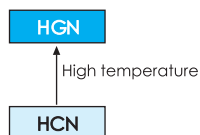


- High Temperature 125°C, 1000 hours
- Low ESR, high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant



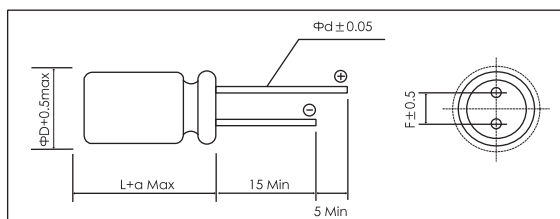
Items	Characteristics
Operating Temperature Range (°C)	-55 ~ +125
Voltage Range (V)	4 ~ 25
Capacitance Range (μF) (20°C, 120Hz)	47 ~ 1200
Capacitance Tolerance (20°C, 120Hz)	± 20%
Surge Voltage	Rated Voltage(V) x 1.15
Leakage Current (μA) ※1	Please see attached ratings list (20°C, 2min)
Dissipation Factor (20°C, 120Hz)	Please see attached ratings list
Equivalent Series Resistance (20°C, 100kHz)	Please see attached ratings list
Temperature Characteristics (Max Impedance Ratio at 100kHz)	$\frac{Z_{+125^\circ\text{C}}}{Z_{+20^\circ\text{C}}} \leq 1.25$ $\frac{Z_{-55^\circ\text{C}}}{Z_{+20^\circ\text{C}}} \leq 1.25$
Endurance	<b>1000h, Rated voltage applied at 125°C</b> Capacitance change: within ± 20% of the initial measured value Dissipation Factor (Tan δ): ≤ 200% of initial specified value ESR: ≤ 200% 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 125°C.

## Dimensions

mm

(unit:mm)



Size Code	ΦD±0.5	L	a max	F±0.5	Φd±0.05
B06	8.0	6	1.0	3.5	0.5
BAB	8.0	11.5	1.5	3.5	0.6
C07	10.0	7.0	1.0	5.0	0.6
CAC	10.0	12.5	1.5	5.0	0.6

## Size List

Cap.(μF)	U <sub>r</sub> [S.V] (V)	4 [4.6]	6.3 [7.2]	10 [12]	16 [18]	20 [23]	25 [29]
47						B06	
68						C07	BAB
82					B06		
100						BAB	CAC
120				B06			
150			B06		C07	CAC	
180					BAB		
220				BAB			
270				C07			
330		B06	C07	BAB	CAC		
470			BAB				
560		BAB		CAC			
680		C07	CAC				
820			CAC				
1200		CAC					

## Ratings for HGN Series

U <sub>R</sub> Code	Rated Capacitance 20°C, 120Hz	Max ESR 20°C, 100kHz	Allowable Ripple Current 100kHz, T ≤ 105°C	Rated Ripple Current 100kHz, 105°C < T ≤ 125°C	Dissipation Factor 20°C, 120Hz	Leakage Current 20°C, 2min	Size ΦD x L	P/N
(V)	(μF)	(mΩ)	(mA <sub>RMS</sub> )	(mA <sub>RMS</sub> )	(%)	(μA)	(mm)	-
4 0G	330	35	2560	810	12	660.0	8×6	PCR0GGN331MB06□□
	680	25	3700	1170	12	544.0	10×7	PCR0GGN681MC07□□
	560	13	4520	1430	12	448.0	8×11.5	PCR0GGN561MBAB□□
	1200	12	5450	1740	12	960.0	10×12.5	PCR0GGN122MCAC□□
6.3 0J	150	35	2560	810	12	472.5	8×6	PCR0JGN151MB06□□
	330	25	3700	1170	12	415.8	10×7	PCR0JGN331MC07□□
	470	15	4210	1332	12	592.2	8×11.5	PCR0JGN471MBAB□□
	680	12	5450	1740	12	642.6	10×12.5	PCR0JGN681MCAC□□
	820	12	5450	1740	12	774.9	10×12.5	PCR0JGN821MCAC□□
10 1A	120	35	2560	810	12	600.0	8×6	PCR1AGN121MB06□□
	270	25	3700	1170	12	540.0	10×7	PCR1AGN271MC07□□
	220	17	3950	1260	12	440.0	8×11.5	PCR1AGN221MBAB□□
	330	17	3950	1260	12	660.0	8×11.5	PCR1AGN331MBAB□□
	560	13	5250	1680	12	840.0	10×12.5	PCR1AGN561MCAC□□
16 1C	82	40	2120	670	12	656.0	8×6	PCR1CGN820MB06□□
	150	30	3020	955	12	480.0	10×7	PCR1CGN151MC07□□
	180	20	3640	1151	12	576.0	8×11.5	PCR1CGN181MBAB□□
	330	16	4750	1520	12	792.0	10×12.5	PCR1CGN331MCAC□□
20 1D	47	45	1890	598	12	470.0	8×6	PCR1DGN470MB06□□
	68	40	2400	759	12	272.0	10×7	PCR1DGN680MC07□□
	100	24	3320	1050	12	400.0	8×11.5	PCR1DGN101MBAB□□
	150	20	4350	1390	12	600.0	10×12.5	PCR1DGN151MCAC□□
25 1E	68	24	3320	1050	12	340.0	8×11.5	PCR1EGN680MBAB□□
	100	20	4350	1390	12	500.0	10×12.5	PCR1EGN101MCAC□□

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