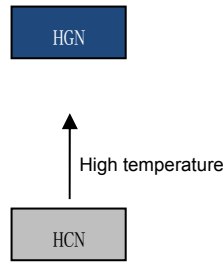


- High temperature 125°C,1000 hours
- Low ESR, high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant



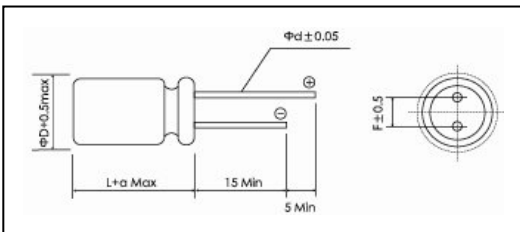
Items	Characteristics
Operating Temperature Range (°C)	-55 ~ +125
Voltage Range (V)	4 ~ 25
Capacitance Range (μF) (20°C, 120Hz)	47~1200
Capacitance Tolerance (20°C, 120Hz)	± 20%
Surge Voltage	$U_s \times 1.15$
Leakage Current (μA) ※1	Please see the attached ratings list (20°C, 2min)
Dissipation Factor (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)	$Z_{+125^\circ\text{C}} / Z_{+20^\circ\text{C}} \leq 1.25$ $Z_{-55^\circ\text{C}} / Z_{+20^\circ\text{C}} \leq 1.25$
Endurance	1000h, Rated voltage applied at 125°C 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)	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 125°C.

Dimensions

mm

(unit: mm)



Size Code	ΦD±0.5	L	amax	F±0.5	Φd±0.05
B06	8.0	6.0	1.0	3.5	0.45
BAB	8.0	11.5	1.5	3.5	0.6
C07	10.0	7	1.0	5.0	0.6
CAC	10.0	12.5	1.5	5.0	0.6

Size List

U _R [S.V] (V) Cap.(μF)	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				
1,200	CAC					

Ratings for HGN Series

U _R 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×L	P/N
(v)	(μF)	(mΩ)	(mArms)	(mArms)	(%)	(μA)	(mm)	-
4 0G	330	35	2,560	810	12	660.0	8x6	PCR0GGN331MB06□□
	680	25	3,700	1,170	12	544.0	10x7	PCR0GGN681MC07□□
	560	13	4,520	1,430	12	448.0	8X11.5	PCR0GGN561MBAB□□
	1,200	12	5,450	1,740	12	960.0	10x12.5	PCR0GGN122MCAC□□
6.3 0J	150	35	2,560	810	12	472.5	8x6	PCR0JGN151MB06□□
	330	25	3,700	1,170	12	415.8	10X7	PCR0JGN331MC07□□
	470	15	4,210	1,332	12	592.2	8x11.5	PCR0JGN471MBAB□□
	680	12	5,450	1,740	12	642.6	10x12.5	PCR0JGN681MCAC□□
	820	12	5,450	1,740	12	774.9	10x12.5	PCR0JGN821MCAC□□
10 1A	120	35	2,560	810	12	600.0	8x6	PCR1AGN121MB06□□
	270	25	3,700	1,170	12	540.0	10x7	PCR1AGN271MC07□□
	220	17	3,950	1,260	12	440.0	8X11.5	PCR1AGN221MBAB□□
	330	17	3,950	1,260	12	660.0	8X11.5	PCR1AGN331MBAB□□
	560	13	5,250	1,680	12	840.0	10x12.5	PCR1AGN561MCAC□□
16 1C	82	40	2,120	670	12	656.0	8x6	PCR1CGN820MB06□□
	150	30	3,020	955	12	480.0	10X7	PCR1CGN151MC07□□
	180	20	3,640	1,151	12	576.0	8X11.5	PCR1CGN181MBAB□□
	330	16	4,750	1,520	12	792.0	10x12.5	PCR1CGN331MCAC□□
20 1D	47	45	1,890	598	12	470.0	8x6	PCR1DGN470MB06□□
	68	40	2,400	759	12	272.0	10x7	PCR1DGN680MC07□□
	100	24	3,320	1,050	12	400.0	8x11.5	PCR1DGN101MBAB□□
	150	20	4,350	1,390	12	600.0	10x12.5	PCR1DGN151MCAC□□
25 1E	68	24	3,320	1,050	12	340.0	8X11.5	PCR1EGN680MBAB□□
	100	20	4,350	1,390	12	500.0	10x12.5	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