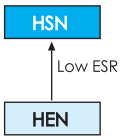
HSN SERIES

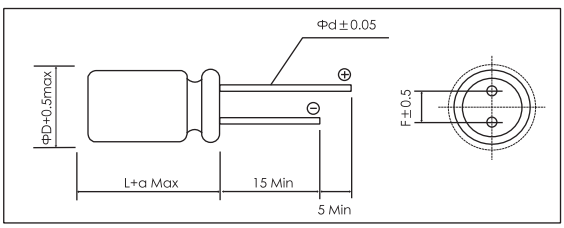
- Low ESR, Large Capacitance 105℃, 2000 hours.
- Ultra Low ESR, high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant



Items	Characteristics
Operating Temperature Range (℃)	-55 ~ +105
Voltage Range (V)	2.5 ~ 6.3
Capacitance Range (μF) (20℃, 120Hz)	390 ~ 1500
Capacitance Tolerance (20℃, 120Hz)	± 20%
Surge Voltage	U_R x 1.15
Leakage Current (μA) ※1	Please see attached ratings list (20℃, 2min)
Dissipation Factor (20℃, 120Hz)	Please see attached ratings list
Equivalent Series Resistance (20℃, 100kHz)	Please see 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	**2000h, 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
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]
390			BAB
560		BAB	
680	BAB		CAC
820	BAB	CAC	CAC
1200		CAC	
1500	CAC		

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

Ratings for **HSN** 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 Φ D x L	P/N
(V)	(μF)	(mΩ)	(mArms)	(%)	(μA)	(mm)	-
2.5 0E	680	5	6630	12	340.0	8×11.5	PCR0ESN681MBAB□□
	820	5	6630	12	410.0	8×11.5	PCR0ESN821MBAB□□
	1500	5	7220	12	750.0	10×12.5	PCR0ESN152MCAC□□
4 0G	560	5	6630	12	448.0	8×11.5	PCR0GSN561MBAB□□
	820	5	7220	12	656.0	10×12.5	PCR0GSN821MCAC□□
	1200	5	7220	12	960.0	10×12.5	PCR0GSN122MCAC□□
6.3 0J	390	5	6630	12	491.4	8×11.5	PCR0JSN391MBAB□□
	680	5	7220	12	856.8	10×12.5	PCR0JSN681MCAC□□
	820	5	7220	12	1033.2	10×12.5	PCR0JSN821MCAC□□

Customer products are available on request.