HSN SERIES



- Low ESR, Large Capacitance 105°C, 2000 hours.
- Ultra Low ESR, high ripple current capability
 Applications: DC/DC Converter, Switching Power Supply,

 $\Phi d \pm 0.05$

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5 Min

amax

1.5

1.5

F±0.5

3.5

5.0

Θ

15 Mir

L

11.5

12.5

- Back up Power Supplies for CPU etc.
- RoHS Compliant





Items	Characteristics			
Operating Temperature Range (°C)	-55 ~ +105			
Voltage Range (V)	2.5 ~ 6.3			
Capacitance Range (µF) (20°C, 120Hz)	390 ~ 1500			
Capacitance Tolerance (20°C, 120Hz)	± 20%			
Surge Voltage	U _R × 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)	$Z_{+105C} / Z_{+20C} \le 1.25$ $Z_{-55C} / Z_{+20C} \le 1.25$			
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°C, 90~95% RH Capacitance change: within ± 20% of the initial measured value Dissipation Factor (Tan 8): ≤ 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="" td="" value<=""> ESR: <the initial="" specified="" td="" value<=""> DC Leakage Current: < the initial specified value (after voltage processing)</the></the>			

≈1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C.

(unit:mm)

Φd±0.05

0.6

0.6

Dimensions

ФD+0.5max

Size Code

BAB

CAC

Size List mm

U _R [S.V] (V) Cap.(µF)	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

L+a Max

ΦD±0.5

8.0

10.0

U _r Code	Rated Capacitance 20°C,120Hz	Max ESR 20°C,100kHz	Rated Ripple Current 105℃,100kHz	Dissipation Factor 20°C,120Hz	Leakage Current 20°C,2min	Size Φ D x L	P/N
(V)	(µF)	(mΩ)	(mArms)	(%)	(µA)	(mm)	-
	680	5	6630	12	340.0	8×11.5	PCROESN681MBAB
2.5 0E	820	5	6630	12	410.0	8×11.5	PCROESN821MBAB
	1500	5	7220	12	750.0	10×12.5	PCROESN152MCAC
	560	5	6630	12	448.0	8×11.5	PCR0GSN561MBAB
4 0G	820	5	7220	12	656.0	10×12.5	
	1200	5	7220	12	960.0	10×12.5	
6.3	390	5	6630	12	491.4	8×11.5	PCR0JSN391MBAB
OJ	680	5	7220	12	856.8	10×12.5	
	820	5	7220	12	1033.2	10×12.5	
	Customer products are available on request						

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