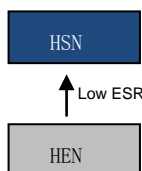


- Low ESR, Large Capacitance 105°C, 2000 hours.
- Ultra Low ESR, high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant

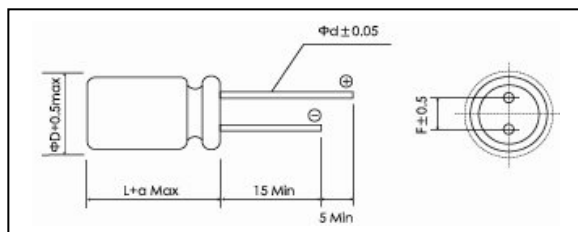


Items	Characteristics
Operating Temperature Range (°C)	-55 ~ +105
Voltage Range (V)	2.5 ~ 16
Capacitance Range (μF) (20°C, 120Hz)	100~2700
Capacitance Tolerance (20°C, 120Hz)	± 20%
Surge Voltage	URX1.15
Leakage Current (μA) ※1	Please see the attached ratings list (20°C, 2min)
Dissipation Factor (20°C, 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°C)/Z(+20°C) ≤ 1.25 Z(-55°C) / Z(+20°C) ≤ 1.25
Endurance	2000h, Rated voltage applied at 105°C 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 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 105°C.

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

Ur [S.V] (V)	2.5 [2.9]	4 [4.6]	6.3 [7.2]
Cap.(μF)			
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

Ur 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)	(mArms)	(%)	(μA)	(mm)	-
2.5 0E	680	5	6,630	12	340.0	8x11.5	PCR0ESN681MBAB□□
	820	5	6,630	12	410.0	8x11.5	PCR0ESN821MBAB□□
	1,500	5	7,220	12	750.0	10x12.5	PCR0ESN152MCAC□□
4 0G	560	5	6,630	12	448.0	8x11.5	PCR0GSN561MBAB□□
	820	5	7,220	12	656.0	10x12.5	PCR0GSN821MCAC□□
	1,200	5	7,220	12	960.0	10x12.5	PCR0GSN122MCAC□□
6.3 0J	390	5	6,630	12	491.4	8X11.5	PCR0JSN391MBAB□□
	680	5	7,220	12	856.8	10X12.5	PCR0JSN681MCAC□□
	820	5	7,220	12	1,033.2	10x12.5	PCR0JSN821MCAC□□

Customer products are available on request.