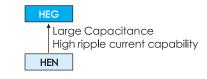
HEG SERIES



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

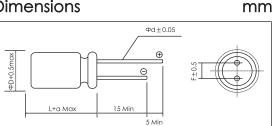




Items	Characteristics				
Operating Temperature Range (°C)	-55 ~ +105				
Voltage Range (V)	16~63				
Capacitance Range (µF) (20°C, 120Hz)	150 ~ 2200				
Capacitance Tolerance (20°C, 120Hz)	± 20%				
Surge Voltage	U _p x 1.15				
Leakage Current (µA) ×1	Please see the attached ratings list (20°C, 2min)				
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)	$Z_{+105^{\circ}C} / Z_{+20^{\circ}C} \le 1.25$ $Z_{-55^{\circ}C} / Z_{+20^{\circ}C} \le 1.25$				
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 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



					(unit:mm)
Size Code	ΦD±0.5	L	amax	F±0.5	Фd±0.05
B14	8.0	14	1.5	3.5	0.6
B16	8.0	16	1.5	3.5	0.6
C14	10.0	14	2.0	5.0	0.6
C16	10.0	16	2.0	5.0	0.6

Size List

U _R [S.V] (V) Cap.(µF)	16 [18]	20 [23]	25 [29]	32 [37]	35 [40]	40 [46]	50 [58]	63 [72]
150								C14
180							C14	C16
220							C14	
270					B14	B14	C14	
330				B14	B16.C14	C14	C16	
390				B14	C14	C14		
470				C14	C14	C16		
560		B14	B14	C14	C16			
680		B14	B16	C16	C16			
820	B14	C14	C14					
1000	B14	C14	C16					
1200	C14	C16	C16					
1500	C14							
1800	C16							
2200	C16							



HEG SERIES

Ratings for **HEG** Series

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 ΦD x L	P/N
(\)	(µF)	(mΩ)	(mArms)	(%)	(µA)	(mm)	-
	820	14	4950	12	2624	8×14	PCR1CEG821MB14
	1000	14	4950	12	3200	8×14	PCR1CEG102MB14
16	1200	12	6100	12	3840	10×14	PCR1CEG122MC14
1Č	1500	10	6100	12	4800	10×14	PCR1CEG152MC14
	1800	10	7000	12	5760	10×16	PCR1CEG182MC16
	2200	10	7000	12	7040	10×16	PCR1CEG222MC16
	560	18	4350	12	2240	8×14	PCR1DEG561MB14
	680	18	4350	12	2720	8×14	PCR1DEG681MB14
20 1D	820	16	4650	12	3280	10×14	PCR1DEG821MC14
	1000	14	5100	12	4000	10×14	PCR1DEG102MC14
	1200	14	5000	12	4800	10×16	PCR1DEG122MC16
	560	16	4600	12	2800	8×14	PCR1EEG561MB14
05	680	16	4650	12	3400	8×16	PCR1EEG681MB16
25 1E	820	14	5100	12	4100	10×14	PCR1EEG821MC14
	1000	14	5100	12	5000	10×16	PCR1EEG102MC16
	1200	14	5910	12	6000	10×16	PCR1EEG122MC16
	330	20	4000	12	2112	8×14	PCR1FEG331MB14
	390	18	4350	12	2496	8×14	PCR1FEG391MB14
32 1F	470	18	4500	12	3008	10×14	PCR1FEG471MC14
	560	18	4500	12	3584	10×14	PCR1FEG561MC14
	680	18	4690	12	4352	10×16	PCR1FEG681MC16
	270	20	4000	12	1890	8×14	PCR1VEG271MB14
	330	20	4100	12	2310	8×16	PCR1VEG331MB16
	330	22	4100	12	2310	10×14	PCR1VEG331MC14
35 1V	390	20	4300	12	2730	10×14	PCR1VEG391MC14
1	470	18	4500	12	3290	10×14	PCR1VEG471MC14
	560	18	4690	12	3920	10×16	PCR1VEG561MC16
	680	18	4690	12	4760	10×16	PCR1VEG681MC16
	270	20	4000	12	2160	8×14	PCR1GEG271MB14
40 1G	330	18	4500	12	2640	10×14	PCR1GEG331MC14
1G	390	18	4500	12	3120	10×14	PCR1GEG391MC14
	470	18	4690	12	3760	10×16	PCR1GEG471MC16
	180	22	4100	12	1800	10×14	PCR1HEG181MC14
50 1H	220	20	4300	12	2200	10×14	PCR1HEG221MC14
1H	270	18	4500	12	2700	10×14	PCR1HEG271MC14
	330	20	4950	12	3300	10×16	PCR1HEG331MC16
63 1J	150	22	4100	12	1890	10×16	PCR1JEG151MC16
1J	180	20	4950	12	2268	10×16	PCR1JEG181MC16

Customer products are available on request.

Frequency coefficient for ripple current

Frequency	120Hz ≤ f < 1kHz	1 kHz \leq f $<$ 10kHz	10kHz ≤ f < 100kHz	100kHz ≤ f < 500kHz
Coefficient	0.05	0.3	0.7	1