

DC LINK FILM CAPACITORS (Customized design)

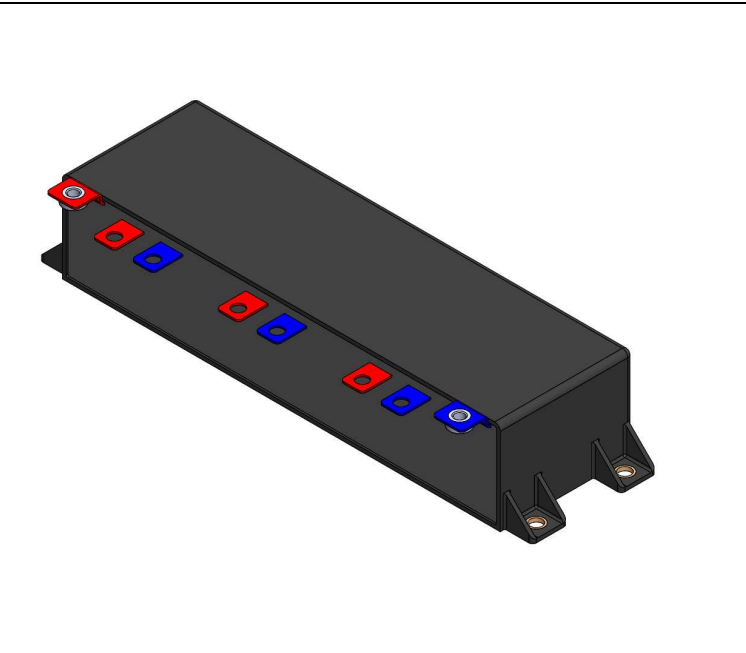
**PCHM912
(P912)**

■ CONSTRUCTIONS

- Dielectric : Metallized Polypropylene film with segmented pattern
- Case : PPS (UL94 V-0)
- Filling : Epoxy resin (UL94 V-0)
- Terminals : Tinned copper

■ FEATURE

- Can replace Electrolytic capacitors
- High safety, Self-healing and self-protecting function built in
- Open circuit failure mode by patterned fuse
- Low ESR (High ripple current capability)
- Low ESL



■ APPLICATIONS

- High performance DC LINK / DC filtering applications
- Automotive(HEV, EV) Power inverter / converter
- Renewable energies inverters

■ GENERAL INFORMATIONS

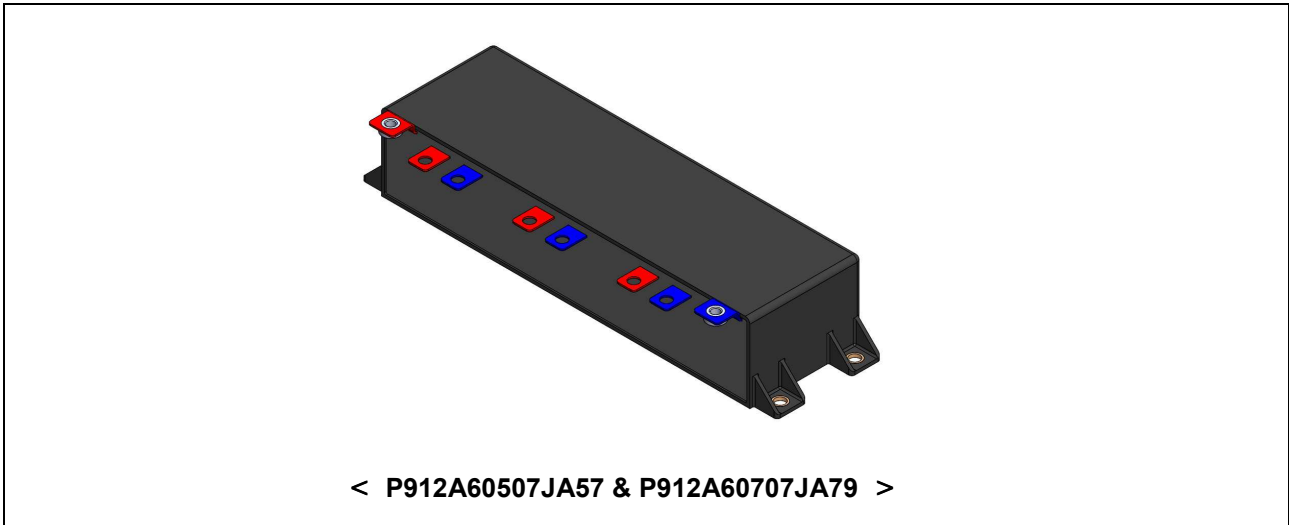
Operating temperature range	-40°C ~ 105°C (including self heat generation)
Capacitance range	500uF / 700uF (other values available on request)
Rated voltage (V _{Rdc} at 85°C)	600Vdc
Withstanding voltage between terminals	1.2 x V _{Rdc} applied for 60s
Withstanding voltage between terminals and case	2.5KV _{AC} 50-60Hz applied for 60s
Insulation resistance (IR)	IRxC ≥ 10,000s at 500V _{dc} , 1min
Self inductance (Ls)	< 20nH
Life time expectancy	10,000 hours at V _R , 85°C FIT : 300 per 10 ⁹ component hours at 0.5xV _R , 40°C

• Design and specifications are subjected to change without notice. Please refer to caution and warning at <http://www.pilkor.co.kr/sub/download/Introductions.pdf> before using these products.

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■ OREDRING INFORMATION



1	2	3	4	5	6	7	8	9	10	11	12	13	14
P	9	1	2	A	6	0	5	0	7	J	A	5	7

Digit 1~4	
Code	Series Name
P912	PCHM912

Digit 5	
Code	Revision
A	Standard
C	Customized

Digit 6~7	
Code	Voltage
45	450Vdc
60	600Vdc

Digit 8~10	
Code	Capacitance
507	500uF
707	700uF

Digit 11	
Code	Capacitance Tolerance
J	± 5 %

Digit 12~14	
Code	No.
A57	057
A79	079
B01	101

■ ELECTRICAL DATA & ORDERING CODE

Ordering Code	V _R (V _{dc})	Cap (uF)	L x W x H (mm)	V _S ¹⁾ (V _{DC})	I _{rms} ²⁾ (A)	I _{PEAK} ³⁾ (KA)	Rs ⁴⁾ (mΩ)	Ls ⁵⁾ (nH)	Mass (kg)
P912A60507JA57	600	500	237 x 72 x 50	720	70	2.5	0.32	15	1.4
P912A60707JA79	600	700	237 x 72 x 50	720	100	3.5	0.32	15	1.5

- 1) Non recurrent surge voltage or peak operating DC voltage (1.2 x V_R, 60s)
- 2) Typical rms current for continuous operation at 10KHz (ΔT = 15°C)
- 3) Maximum repetitive peak current (dV/dt = 5V/us)
- 4) Typical equivalent series resistance at 10KHz
- 5) Typical self inductance value at 1MHz

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■ DRAWINGS

