

CAPACITOR



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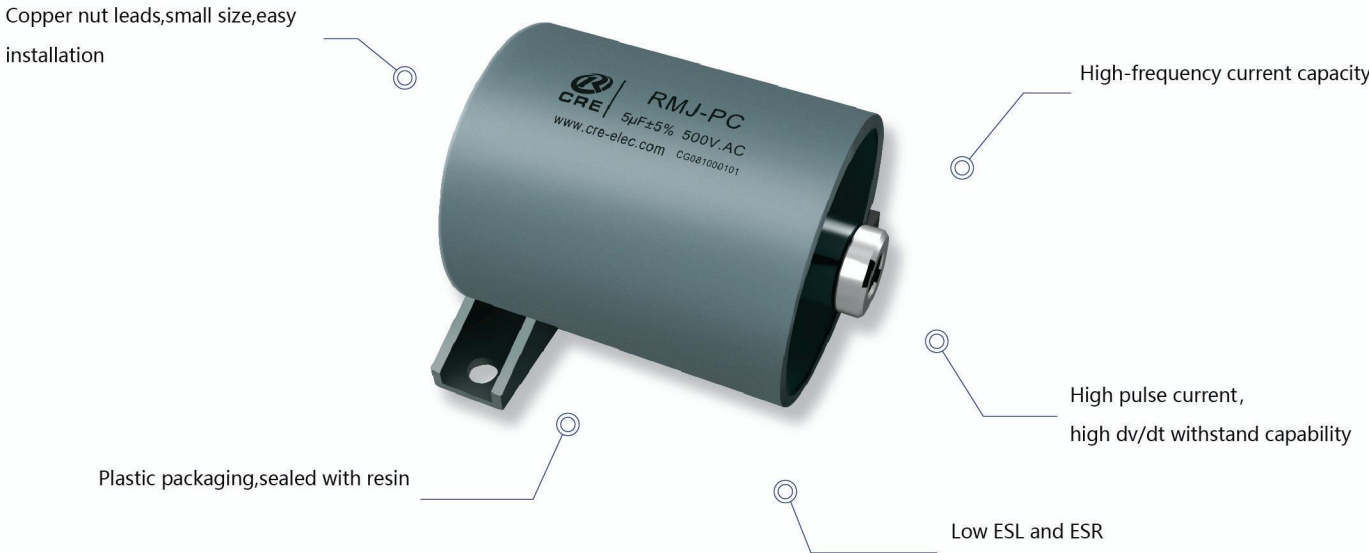
Web:www.cre-elec.com

RMJ-PC
Resonance

POWER LINKS SUCCESS

RMJ-PC series

High voltage resonance film capacitor



Application

- Widely used in power electronic devices in series/parallel resonant circuit.
- Welding, power supplies, induction heating equipment resonance occasions.

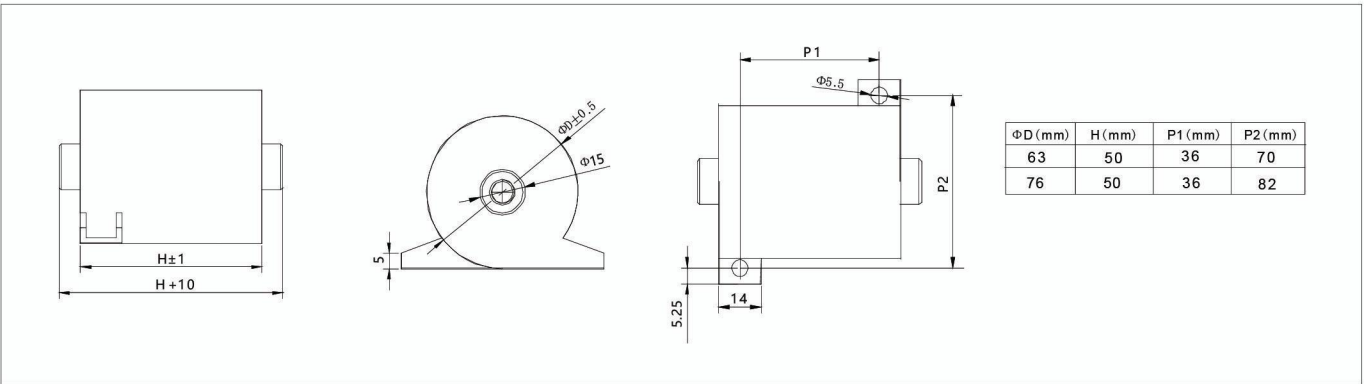
Technical data

Operating temperature range	Max. Operating temperature, Top, max : +105°C
	Upper category temperature: + 85°C
	Lower category temperature : - 40°C
(C _N) / Capacitance range	1μF~8μF
(U _N) / Rated voltage	1200V.DC - 2000V.DC
Cap.tol	±5%(J) ; ±10%(K)
Withstand voltage	1.5U _N /60s
Dissipation factor	tgδ≤0.001 f=1kHz
Insulation resistance	Rs×C≥5000s (at20°C 100V.DC 60s)
Withstand strike current	See the specification sheet

Technical data

Irms	See the specification sheet
Life expectancy	100000h (U _N ; θ _{hotspot} ≤85°C)
Reference standard	IEC61071

The contour map



Part number system

Model			Capacitance			U _N (DC)				Cap. tol	Dimension	Lead	Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R	P	C	4	0	5	1	2	0	0	J	1	A	0	1
1	~	3	digits:	Model										
4	~	6	digits:	Nominal Capacity										
			e.g. 405=40×10 ⁵ pF=4μF											
7	~	10	digits:	U _N (DC)										
			e.g. 1200=1200V.DC											
		11	digits:	Capacitance Tolerance										
			±5% (J) ±10% (K)											
		12	digits:	Dimension										
			1: 63×50											
			2: 76×50											
		13	digits:	Lead										
			A: M6×10Screw nut											
			B: M8×10Screw nut											
14	~	15	digits:	Internal feature code										



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Specification table

C _N (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I _p (kA)	I _{rms} @100kHz 40°C (A)	ESR @100kHz (mΩ)	Part number
U _N 1200V.DC U _{rms} 500V.AC								
2	63	52	20	500	1.0	30	3.2	RPC2051200*1***
3	63	50	22	500	1.5	35	3	RPC3051200*1***
4	63	50	22	400	1.6	45	2.8	RPC4051200*1***
5	63	50	23	400	2.0	50	2.5	RPC5051200*1***
6	76	50	25	350	2.1	60	2	RPC6051200*2***
7	76	50	25	300	2.1	65	1.5	RPC7051200*2***
U _N 1600V.DC U _{rms} 600V.AC								
2	63	50	20	700	1.4	30	3.2	RPC2051600*1***
3	63	50	22	600	1.8	35	3	RPC3051600*1***
4	63	50	22	550	2.2	45	2.8	RPC4051600*1***
5	76	50	23	500	2.5	55	2.3	RPC5051600*2***
6	76	50	25	450	2.7	65	2.2	RPC6051600*2***
U _N 2000V.DC U _{rms} 700V.AC								
2	63	50	20	800	1.6	50	3	RPC2052000*1***
3	63	50	22	700	2.1	55	2.8	RPC3052000*1***
4	76	50	22	600	2.4	65	2.5	RPC4052000*2***

