AC / DC Filter and High Ripple Current Capacitor

C61

Characteristics

- PET tape wrapping, epoxy resin perfusion
- Tin plated copper nut or copper sheet leads
- High-frequency current capacity
- Low ESL, low ESR
- High pulse current , high dV/dt, high stability, self healing

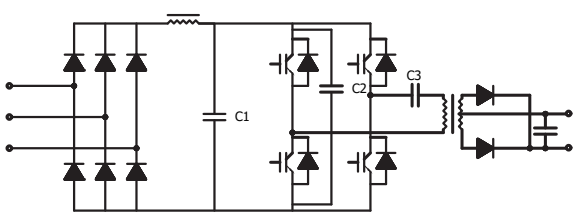
Application

- Widely used in series circuits or parallel resonant circuits of power electronic devices
- Welding power supplies, induction heating equipment in resonance occasions

Technical Data

• Reference Standard	IEC61071 .GB/T17702
• Operating Temperature Range	-40°C~+70°C(Max. +85°C) Tmax+85°C
• Capacitance Range	5.0μF ~100μF
• Rated Voltage	400VDC~1200VDC
• Capacitance Tolerance	±5%(J); ±10%(K)
• Withstand Voltage	1.5Un DC/10S
• Dissipation Factor	tgδ≤0.0010 f=100Hz at 20°C
• Insulation Resistance	RsC≥10000S (at 20°C 100VDC 60S)
• Flame Retardation	UL94V-0
• Life Expectancy	100000hrs (Un θhotspot ≤ 55°C)

Typical Circuit



C1, C3 : The High Ripple Current Capacitor

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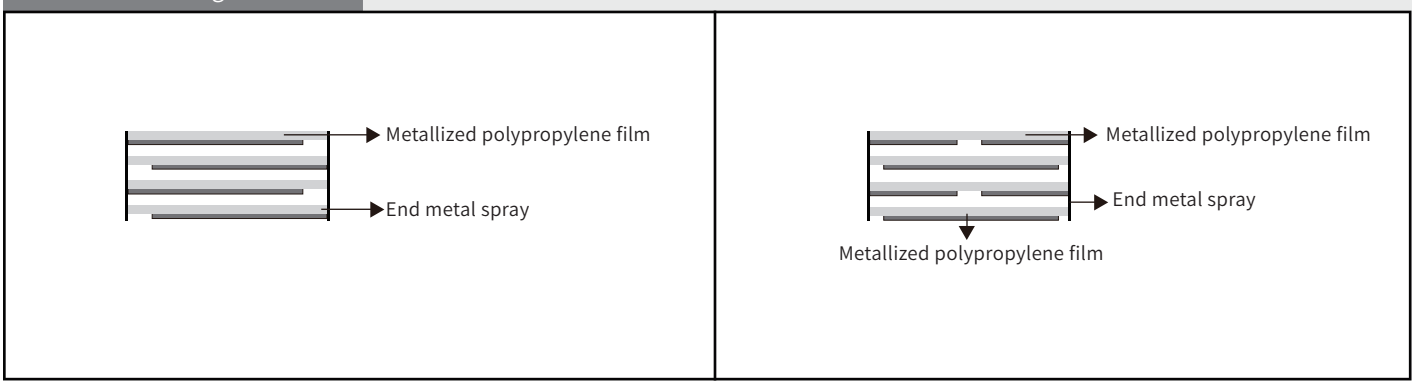
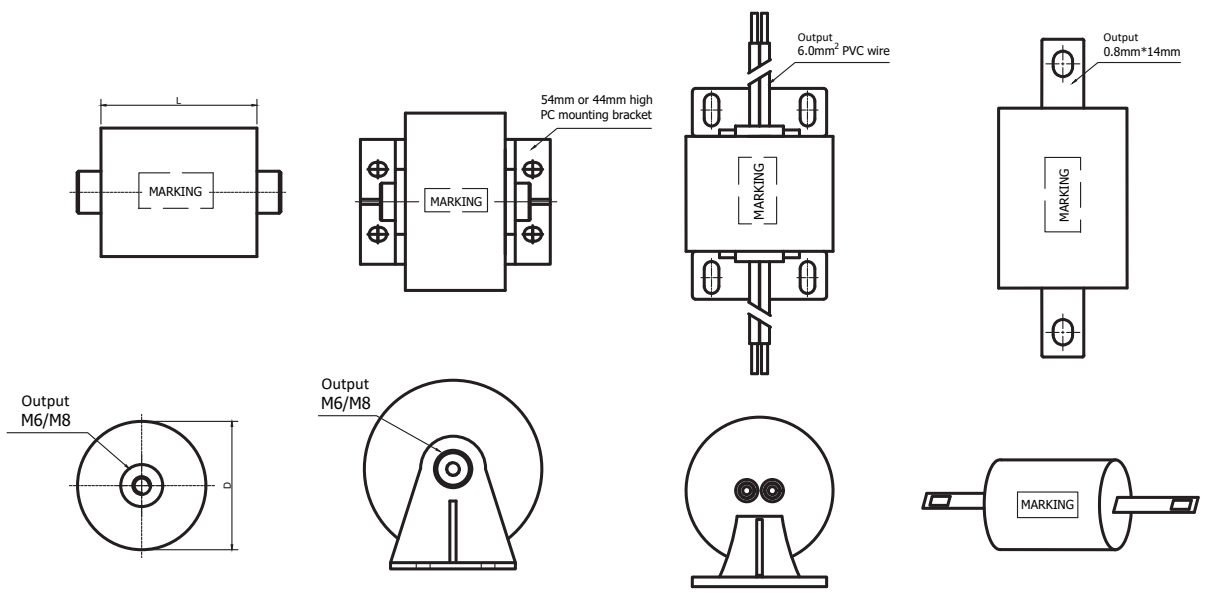
Construction Diagram



Product Shape



Product Coding

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
C	6	1	X	X	N	X	X	N	□	□	□	□	□	□	□	–	□	□

- 01 02 03: Product model
- 04 05 06: Rated voltage — XX*10^n (V)
- 07 08 09: Nominal capacity — XX*10^n (pF)
- 10: Capacity deviation — J ±5%; K ±10%
- 11: Extraction electrode — P - Copper Sheet; F -Nut; W- UL Wire; R- 3C Wire
- 12 13 14: Leads form — G01、H01、I01、J01、K01、W01
- 15 16: Lead wire type — Leads are soldering lugs, the column is vacant
- 17 18 19: Serial number — 01、02…

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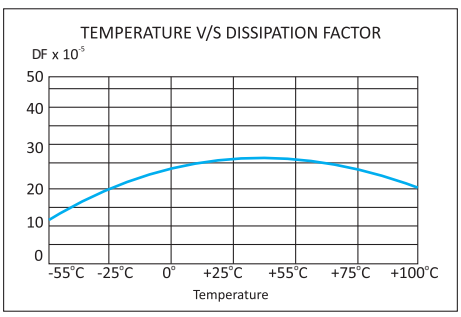
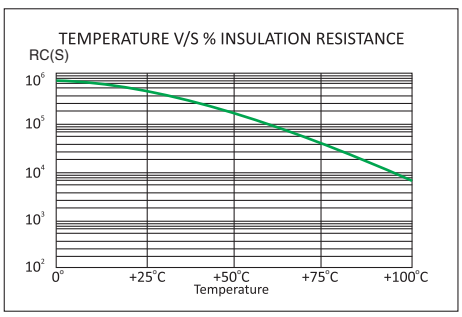
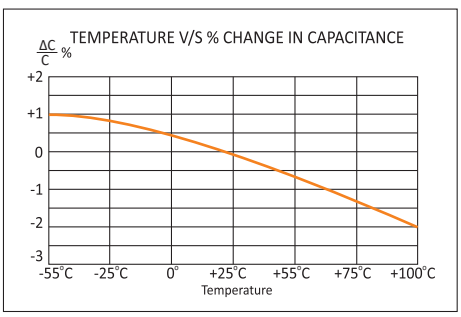
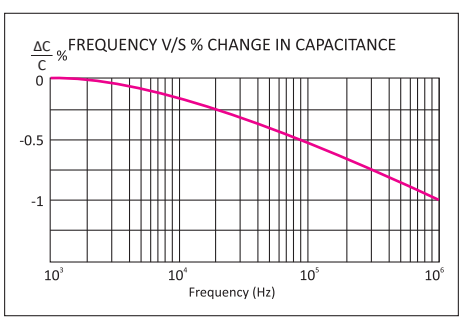
Frequency Characteristics

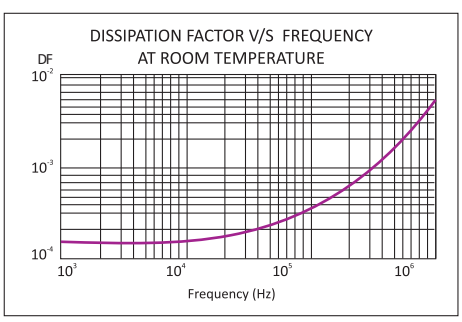




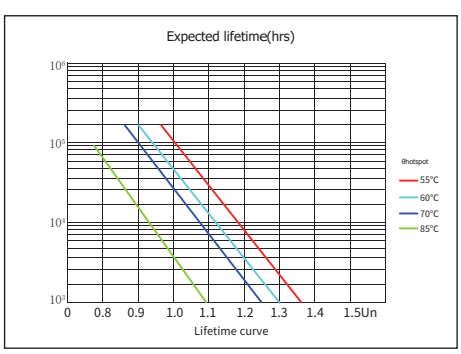


Temperature Characteristics





Life Expectancy



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Article Table

Part Number	CAP μF	Dimension（mm） L	Dimension（mm） D	dV/dt (V/μs)	Ipeak (A)	Irms @10KHz40℃ (A)	ESL (nH)	ESR @10KHz20℃ (mΩ)	Output
U_N 400VDC / Urms 250VAC									
C61401206J•••••	20	40	44	80	1600	45	23	4.0	M6
C61401256J•••••	25	50	47	70	1750	50	31	3.3	M6
C61401306J•••••	30	50	50	65	1950	55	30	2.7	M6
C61401406J•••••	40	50	58	60	2400	60	28	2.0	M6
C61401506J•••••	50	50	64	55	2750	70	27	1.6	M8
C61401606J•••••	60	60	57	45	2700	65	26	1.5	M6
C61401806J•••••	80	60	66	40	3200	75	24	1.1	M8
C61401107J•••••	100	60	74	35	3500	85	23	0.9	M8
U_N 800VDC / Urms 400VAC									
C61801106J•••••	10	40	42	100	1000	40	28	6.0	M6
C61801156J•••••	15	50	44	80	1200	45	35	5.0	M6
C61801206J•••••	20	50	52	75	1500	50	32	4.5	M6
C61801256J•••••	25	50	58	75	1875	55	32	3.2	M6
C61801306J•••••	30	50	63	70	2100	60	30	2.7	M6
C61801406J•••••	40	60	63	55	2200	68	30	2.0	M8
C61801506J•••••	50	60	70	50	2500	75	27	1.6	M8
C61801606J•••••	60	60	76	50	3000	80	25	1.2	M8
C61801806J•••••	80	60	88	45	3600	95	24	1.0	M8
C61801107J•••••	100	60	98	40	4000	110	23	0.9	M8
U_N 1200VDC / Urms 500VAC									
C61122505J•••••	5	40	44	120	600	35	30	8.0	M6
C61122106J•••••	10	50	58	100	1000	45	38	6.5	M6
C61122156J•••••	15	50	70	100	1500	50	35	3.8	M8
C61122206J•••••	20	60	66	80	1600	55	32	3.2	M8
C61122256J•••••	25	60	74	80	2000	65	32	2.5	M8
C61122306J•••••	30	60	81	80	2400	75	30	2.1	M8
C61122406J•••••	40	60	93	80	3200	85	27	1.7	M8
C61122506J•••••	50	60	105	80	4000	100	25	1.3	M8

The above table / graphics are for reference only, subject to the actual product (unit: mm)
Note：Maximum Irms current at 10kHz, Tamb=40°C △T≤15°C.