Resonant Capacitor
C44

Characteristics

- Plastic packaging , epoxy resin filling
- Lead by the tinned copper nut, small size and convenient installation.
- High frequency and high current endurance.
- Low ESL and ESR
- High pulse current, high dv/dt endurance and good stability.self healing

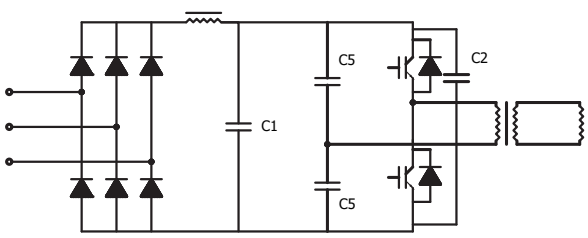
Application

- 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 .IEC60110
• Operating Temperature Range	-40°C~+85°C Tmax+105°C(highest temp. +105°C)
• Capacitance Range	1μF ~7.0μF
• Rated Voltage	1200VDC~2000VDC
• Capacitance Tolerance	±5%(J); ±10%(K)
• Withstand Voltage	1.5Un DC/10S
• Dissipation Ractor	tgδ≤0.0010 f=10KHz at 20°C
• Insulation Resistance	RsC≥5000S (at20°C 100VDC 60S)
• Flame Fetardation	UL94V-0
• Life Expectancy	100000hrs (Un θhotspot ≤ 70°C)

Typical Circuit



C5 is resonant capacitor in the resonant circuit.

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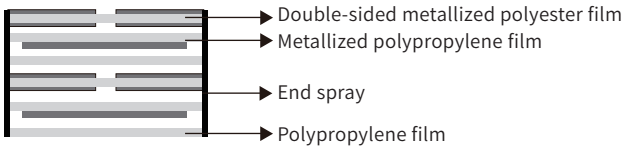
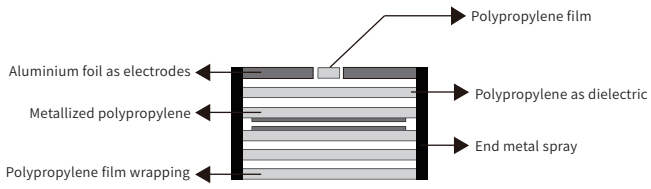
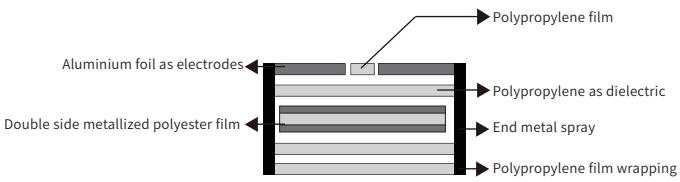
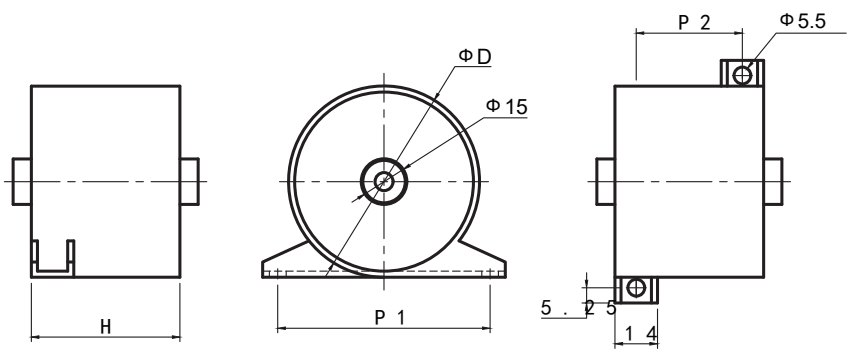
Construction Diagram







Product Shape



ΦD(mm)	H(mm)	P 1(mm)	P 2(mm)
5 0	6 0	4 6	5 8
6 3	5 0	3 6	7 0
7 6	5 0	3 6	8 2

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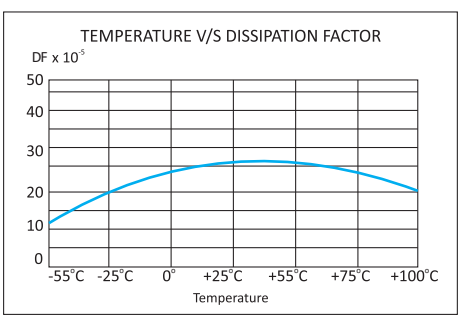
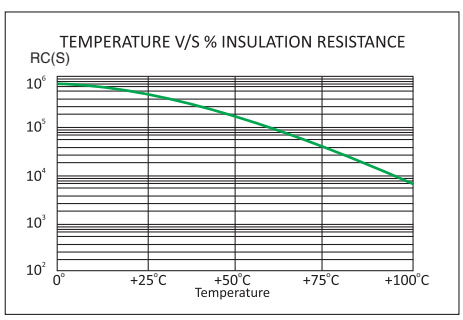
Product Coding

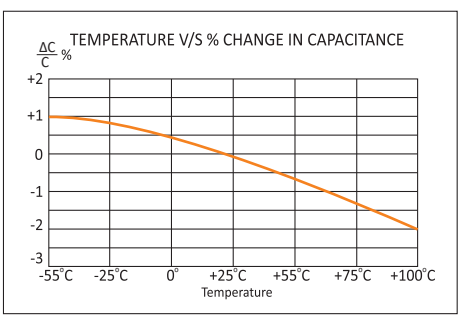
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
C	4	4	X	X	N	X	X	N						–		

- 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 — F -Nut
- 12 13 14: Lead wire type
- 15 16 17: Serial number — 01、02…

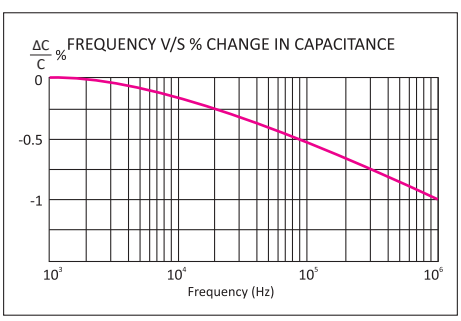
Frequency Characteristics

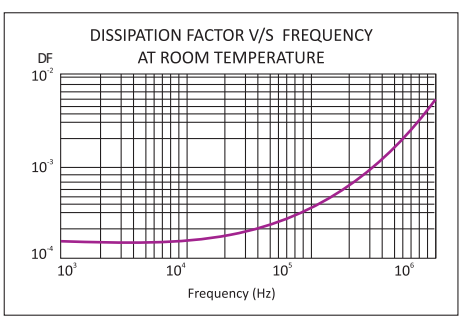




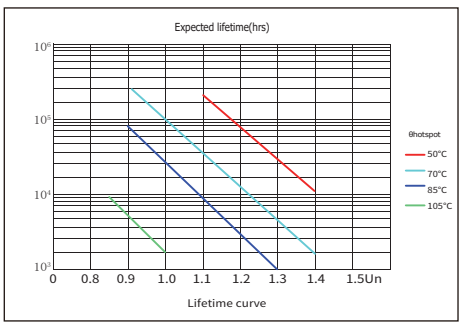


Temperature Characteristics





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 @100KHz40℃ (A)	ESL (nH)	ESR @100KHz20℃ (mΩ)	Qn (kVar)
U_N 1200VDC Urms 500VAC									
C44501205JFJ01M6-01	2.0	50	63	500	1000	60	20	3.2	27.0
C44501305JFJ01M6-01	3.0	50	63	500	1500	65	22	3.0	29.2
C44501405JFJ01M6-01	4.0	50	63	400	1600	70	22	2.8	31.5
C44501505JFJ01M6-01	5.0	50	63	400	2000	75	23	2.5	33.7
C44501605JFJ01M6-01	6.0	50	76	350	2100	85	25	2.0	38.2
C44501705JFJ01M6-01	7.0	50	76	300	2100	90	25	1.5	40.5
U_N 1600VDC Urms 600VAC									
C44601205JFJ01M6-01	2.0	50	63	700	1400	60	20	3.2	32.4
C44601305JFJ01M6-01	3.0	50	63	600	1800	65	22	3.0	35.1
C44601405JFJ01M6-01	4.0	50	63	550	2200	70	22	2.8	37.8
C44601505JFJ01M6-01	5.0	50	76	500	2500	80	23	2.3	43.2
C44601605JFJ01M6-01	6.0	50	76	450	2700	85	25	2.2	45.9
U_N 2000VDC Urms 700VAC									
C44601205JFJ01M6-01	2.0	50	63	800	1600	60	20	3.2	37.8
C44601305JFJ01M6-01	3.0	50	63	700	2100	65	22	3.0	40.9
C44601405JFJ01M6-01	4.0	50	76	600	2400	75	22	2.5	47.2

The above table / graphics are for reference only, subject to the actual product (unit: mm)
Note：Maximum Irms current at 100kHz, Tamb=70°C △T≤15°C.