

C53

DC-Link Capacitor

直流支撑电容器

C53



产品特点.Characteristics

- 聚丙烯膜介质；
 - 迈拉胶带封装，干式环氧树脂灌注；
 - 体积小，安装方便；
 - 优异的高频大电流承受能力。
- Polypropylene film dielectric
 - Myla tape packaging, sealed with epoxy resin
 - Small size and easy installation
 - Excellent high frequency and high current bearing capacity

产品应用.Application

- 广泛应用于DC-Link电路中，作高频滤波和退耦用；
 - 电力电子设备中隔直耦合用。
- Widely used in DC-Link Circuits, as a high frequency filtering and decoupling
 - Direct Coupling in Power Electronic equipment

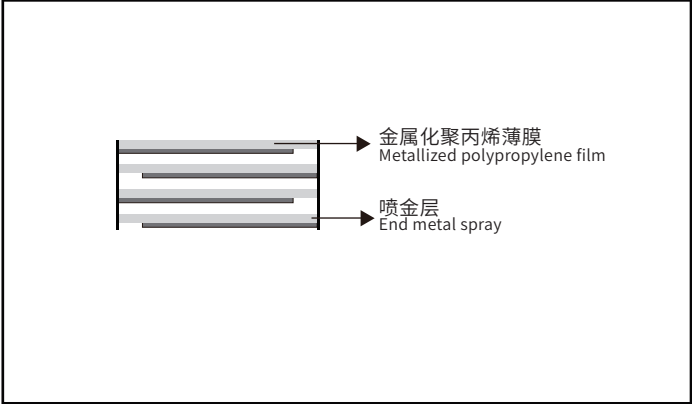
性能参数.Technical Data	
● 引用标准 Reference Standards	GB/T 17702 IEC 61071
● 工作温度范围 Operating Temperature Range	-40℃~70℃ Top max:+85℃
● 容量范围 Capacitance Range	15μF~300μF
● 额定电压 Rated Voltage	600VDC~1200VDC
● 容量偏差 Capacity Tolerance	±5%(J); ±10%(K)
● 极间耐电压 Test voltage between electrodes	1.5Un (DC) 60S 20℃
● 极壳耐电压 Test voltage between electrode and case	1000+2×UN/√2(VAC) 50Hz 60S (min 3000VAC)
● 损耗角正切 Dissipation Factor	tgδ≤2×10-3 at 20℃, 1KHz
● 绝缘电阻 Insulation Resistance	C•R≥5000S, at 100VDC, 20℃, 60S
● 预期寿命 Life Expectancy	100000hrs (Un θhotspot ≤ 70℃)

过压运行.Overtoltage Operation	
1.1×UN	30% of on-load-dur.
1.15×UN	30 min/day
1.2×UN	5 min/day
1.3×UN	1min/day
1.5×UN	100ms every time, no more than 1000 times during the lifetime

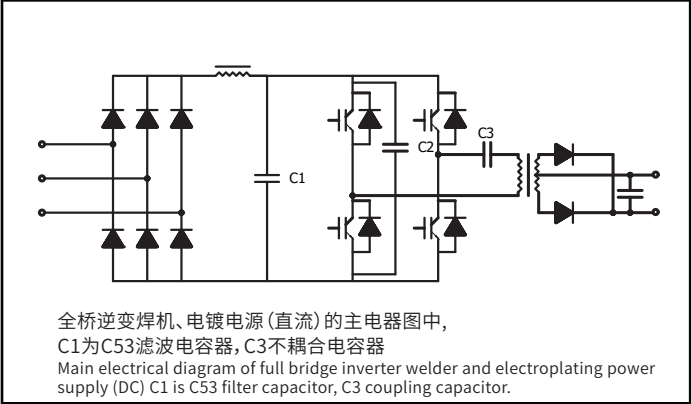
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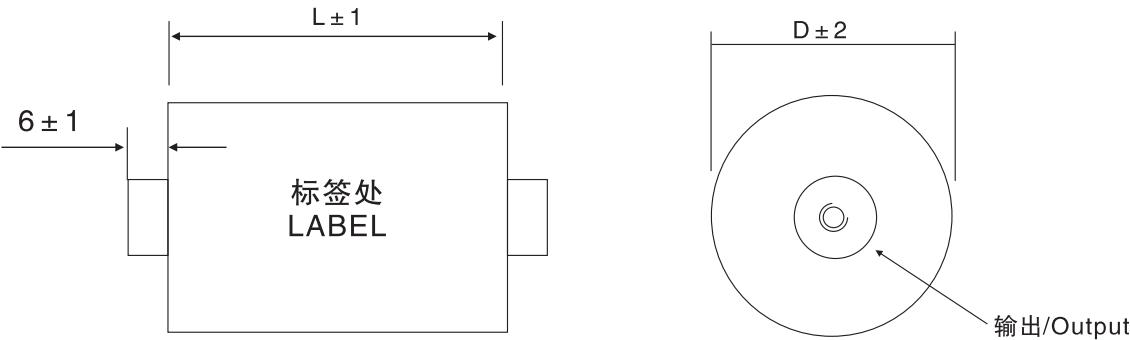
结构图.Construction Diagram



典型线路图.Typical Circuit



产品外形.



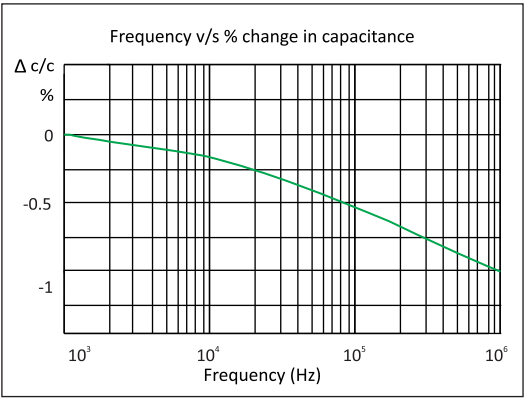
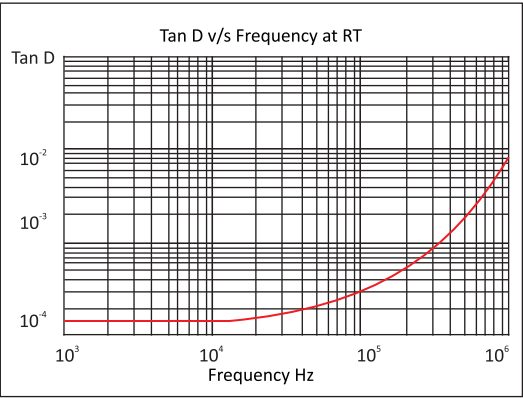
产品编码.Product Coding

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
C	5	3	X	X	N	X	X	N								-		
产品型号 Product model			额定电压 Rated voltage XX*10 ⁿ (V)			标称容量 Nominal capacity XX*10 ⁿ (pF)			容量偏差 Capacity deviation J ±5% K ±10%	引出电极 Extraction electrode P-焊片 P - Soldering lug F-螺母 F-Nut W-UL线 W- UL Wire R-3C线 R- 3C Wire		引线型号 Lead wire type 引线为焊片时, 空缺此栏 Leads are soldering lugs, the column is vacant			序列号 Serial number 01、02 ...			

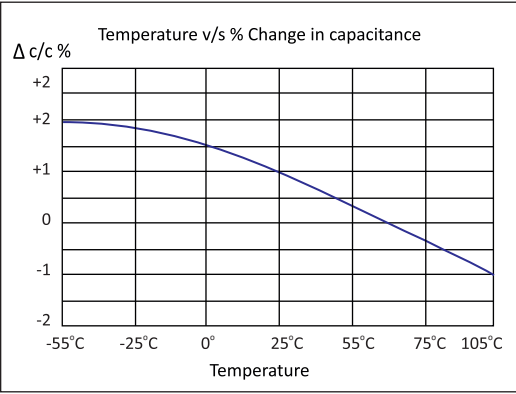
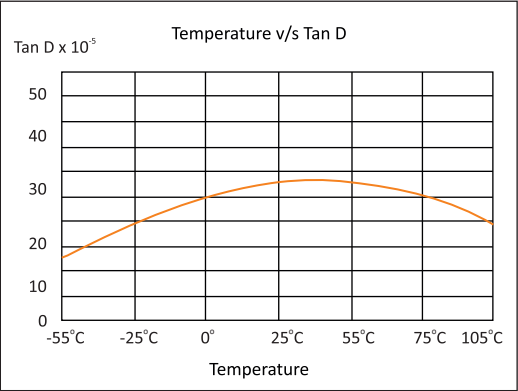
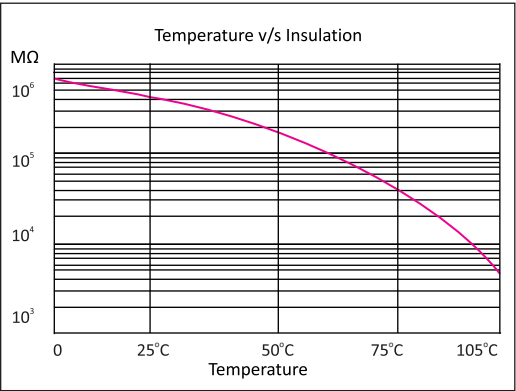
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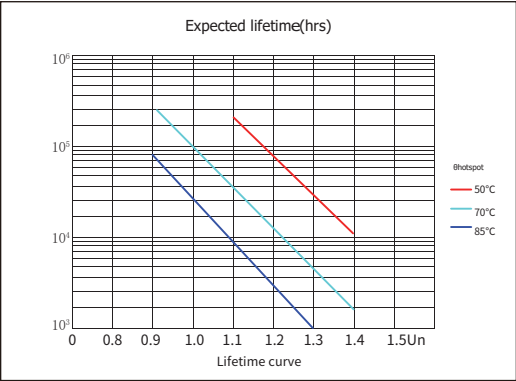
频率特性.Temperature Characteristics



温度特性.Frequency Characteristics



预期寿命 Life Expectancy



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参数表.Article Table

Part Number	CAP μF	Dimension（mm）		dv/dt (V/μs)	Ipeak (A)	Irms @10KHz70℃ (A)	ESL (nH)	ESR @1KHz20℃ (mΩ)	Output
		L	D						
U _N 600VDC									
C53601306KF*****	30	40	45	60	1800	40	25	3.2	M6
C53601506KF*****	50	50	50	50	2500	40	25	3.0	M6
C53601806KF*****	80	50	62	40	3200	50	25	3.0	M6
C53601107KF*****	100	60	60	40	4000	55	25	3.0	M6
C53601157KF*****	150	60	75	35	5250	70	25	2.5	M8
C53601207KF*****	200	110	60	25	5000	80	25	2.6	M6
C53601307KF*****	300	110	72	20	6000	85	25	2.1	M8
U _N 800VDC									
C53801206KF*****	20	40	44	60	1200	40	25	2.9	M6
C53801306KF*****	30	50	46	60	1800	45	25	2.7	M6
C53801406KF*****	40	50	52	60	2400	45	25	2.7	M6
C53801506KF*****	50	50	59	55	2750	50	25	2.4	M6
C53801107KF*****	100	60	72	50	5000	65	25	2.2	M8
C53801157KF*****	150	110	62	30	4500	70	25	2.4	M6
C53801207KF*****	200	110	71	30	6000	80	25	2.2	M8
U _N 1200VDC									
C53122156KF*****	15	40	51	70	1050	40	25	3.2	M6
C53122256KF*****	25	50	54	60	1500	45	25	3.1	M6
C53122406KF*****	40	50	69	60	2400	60	25	2.7	M6
C53122506KF*****	50	60	69	50	2500	60	25	2.6	M6
C53122806KF*****	80	60	86	50	4000	75	25	1.6	M8
C53122107KF*****	100	110	66	35	3500	70	25	2.5	M6
C53122157KF*****	150	110	81	35	5250	85	25	2.2	M8

以上表格/图形仅供参考，以实物为准，(单位:mm)
The above table / graphics are for reference only, subject to the actual product (unit: mm)

备注:最大电流Irms为f=10kHz,Tamb=70℃ △T≤15℃的值。
Note:Maximum Irms current at 10kHz, Tamb=Tamb=70℃ △T≤15℃.