

C47

Resonant Capacitor

谐振电容器

C47



产品特点.Characteristics

- 聚丙烯介质;
 - 金属铝外壳, 干式树脂灌注;
 - 镀锡铜螺母引出, 安装方便;
 - 高频大电流承受能力强;
 - 自感(ESL)小, (ESR)小, 高脉冲电流、高dv/dt 承受能力、高稳定、具有自愈性。
- Polypropylene dielectric
 - Aluminum case, dry resin perfusion
 - Tin plated copper nut lead out, easy installation
 - High frequency high current bearing capacity
 - Low ESL, low ESR, high pulse current, high dv/dt, high stability, self healing

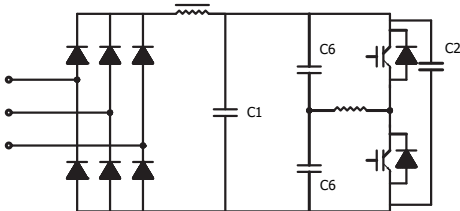
产品应用.Application

- 广泛应用于商用电磁炉、感应加热设备的半桥、全桥谐振电路。
- 电焊机电源, 感应加热设备等谐振场合
- Widely used in half-bridge, full bridge resonant circuits of commercial induction cookers and induction heaters
- Welding machine power supplies, induction heating equipment in resonant occasions.

性能参数.Technical Data

● 引用标准Reference Standard	IEC60110 . GB/T3984.1
● 工作温度范围Operating Temperature Range	-40℃~+70℃ (Max. +85℃) Tmax +85℃
● 容量范围Capacitance Range	0.4μF ~1.35μF
● 额定电压Rated Voltage	2500VDC~3600VDC
● 容量偏差Capacitance Tolerance	±5%(J); ±10%(K)
● 耐电压Withstand Voltage	1.5UN /10S at 20℃ 3000V 50Hz 60s, at 20℃
● 损耗角正切Dissipation Factor	tgδ≤0.0010 f=10KHz at 20℃
● 绝缘电阻Insulation Resistance	RsC≥5000S (at20℃ 100VDC 60S)
● 阻燃性Flame Retardation	UL94V-0
● 杂散电感/Stray inductance	≤30nH
● 预期寿命Life Expectancy	100000hrs (Un θhotspot ≤ 70℃)

典型线路图.Typical Circuit

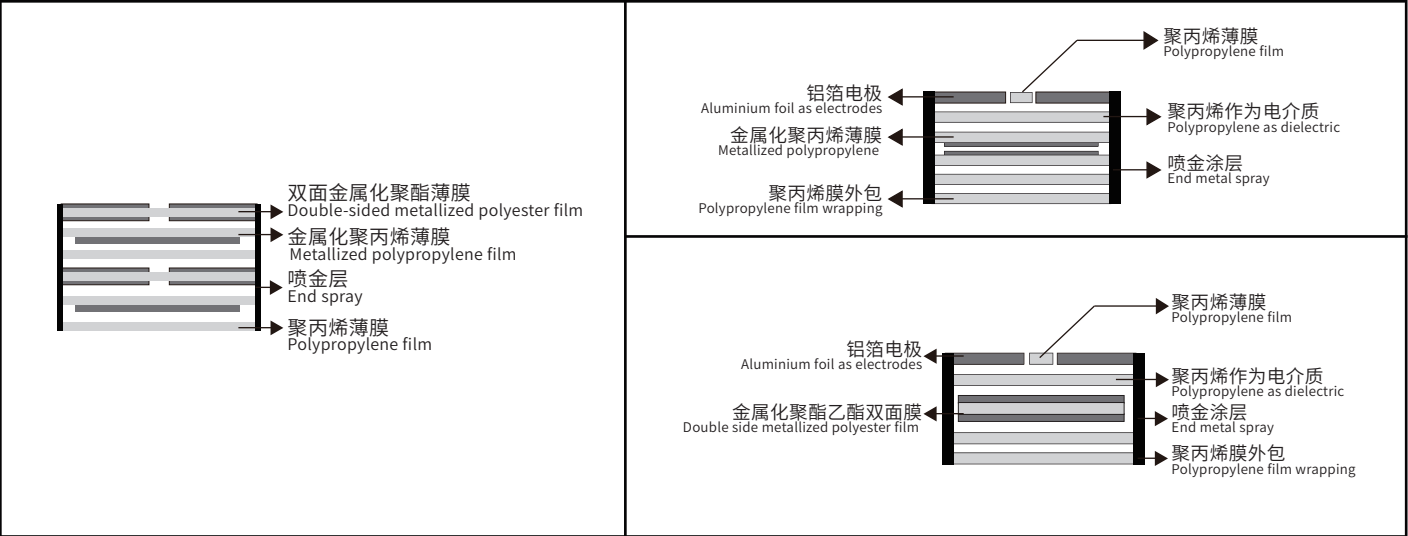


串联谐振电路, C6为谐振电容器
Resonant circuit, C6 are the resonant capacitors

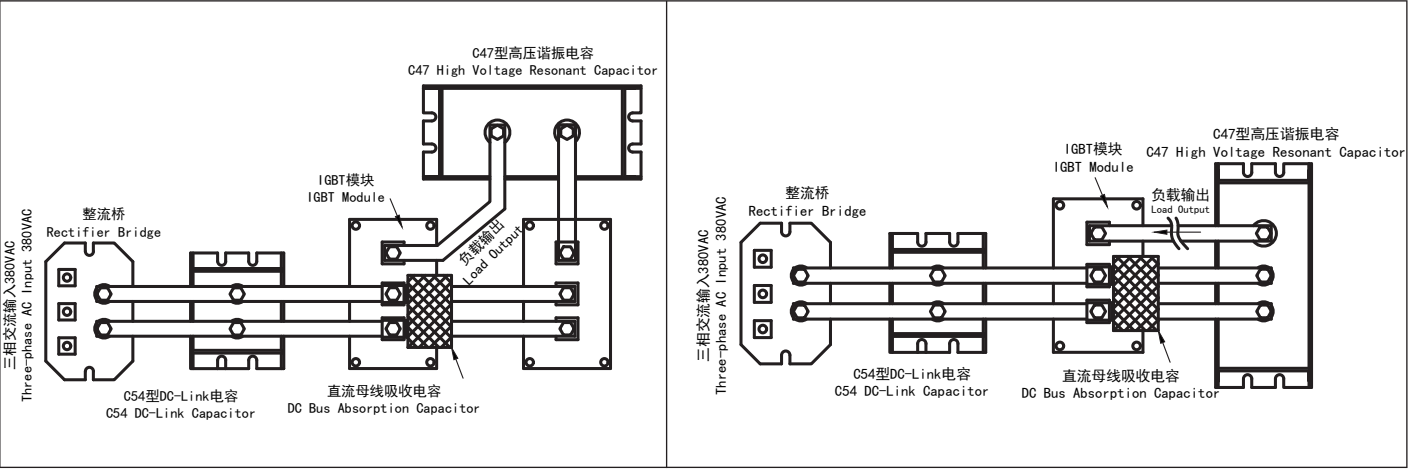
C47

Resonant Capacitor

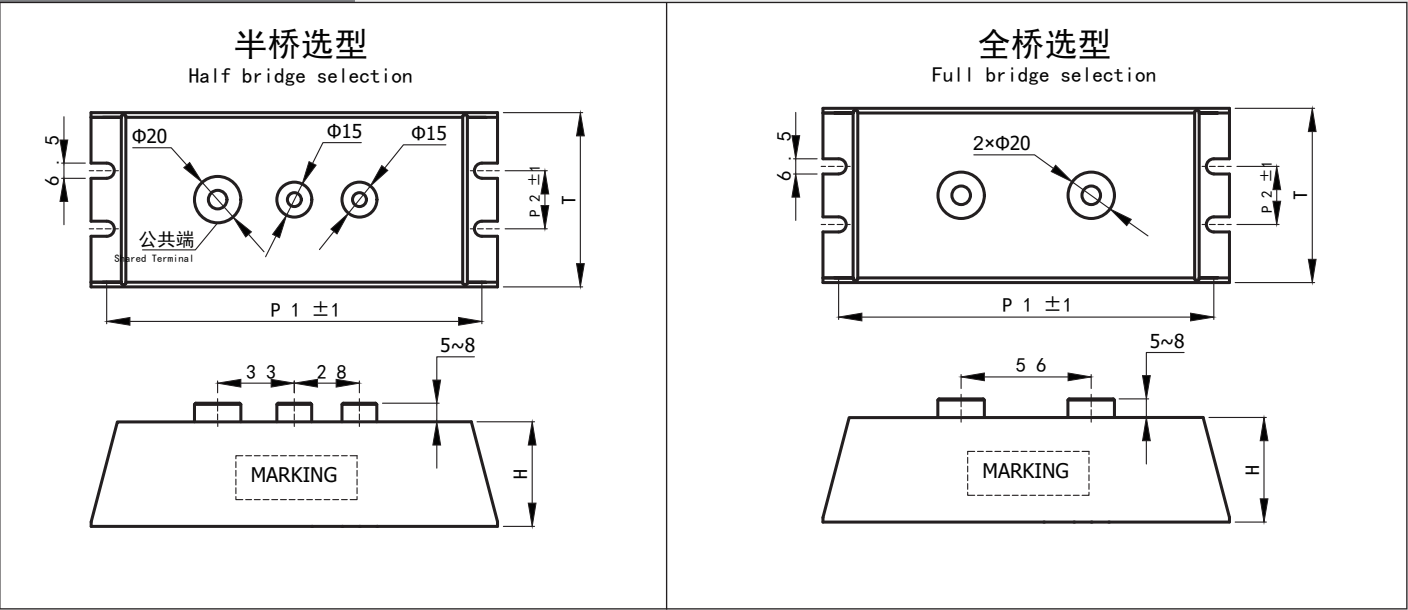
结构图.Construction Diagram



典型链接图Typical Link Figure



产品外形.Product Shape



C47

Resonant Capacitor

产品编码.Product Coding

010203

C47

产品型号
Product model

040506

XXN

额定电压
Rated voltage

XX*10ⁿ (V)

0708

NX

多个容量引出
Multiple capacity extraction

NX

091011

XXN

标称容量
Nominal capacity

XX*10ⁿ (pF)

12

容量偏差
Capacity deviation

J

±5%

K

±10%

13

引出电极
Extraction electrode

F-螺母
F-Nut

141516

引线型号
Lead wire type

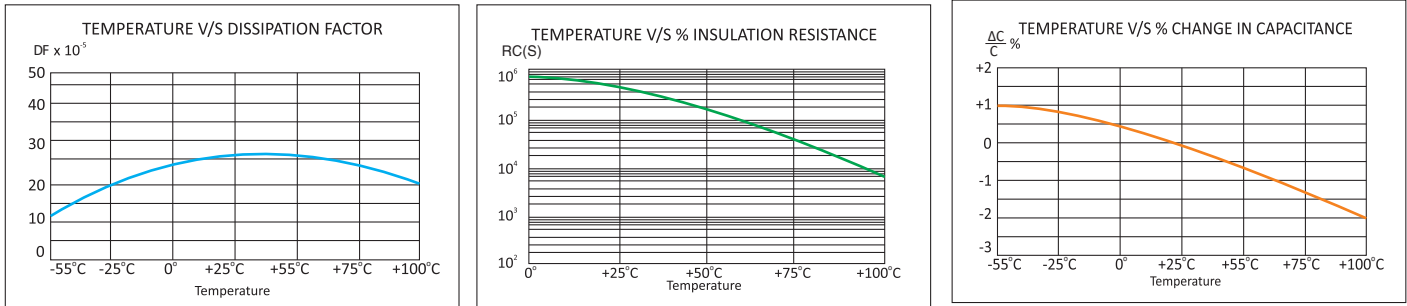
171819

-

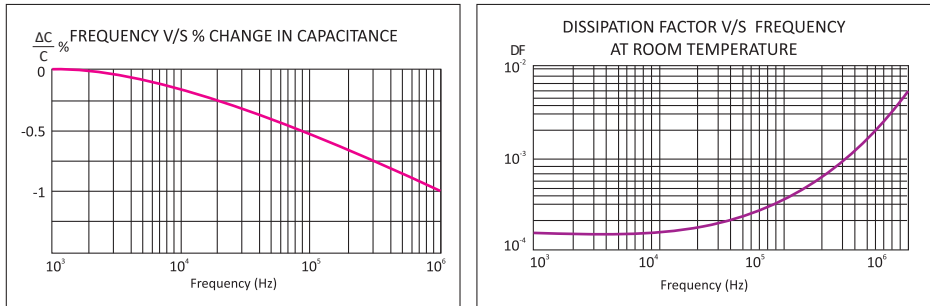
序列号
Serial number

01,02...

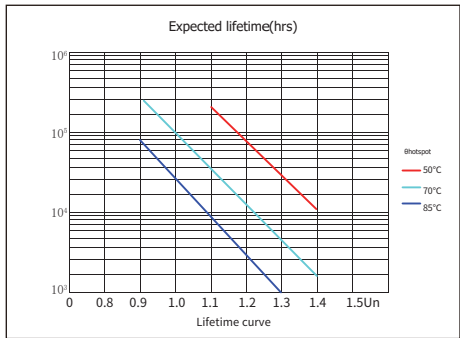
温度特性.Frequency Characteristics



频率特性.Temperature Characteristics



预期寿命 Life Expectancy



C47

Resonant Capacitor

参数表,Article Table

Part Number	CAP (μF)	参 考 功 率 Power Reference	L (mm)	T (mm)	H (mm)	P1+P2 (mm)	Irms (A)	dV/dt (V/μs)	引出方式 Lead-out method
Un=2500V.DC									
C472522×904JF-01	2×0.9	半桥 15KW Half Bridge	175	74	45	33+28	2×80A	1000	M8+2×M6 螺母 M8+2×M6 Nut
Un=3000V.DC									
C473022×604JF-01	2×0.6	半桥 8~12KW	165	65	45	33+28	2×60A	1000	M8+2×M6 螺母
C473022×804JF-01	2×0.8	半桥 15~20KW	175	74	45	33+28	2×80A	1000	M8+2×M6 螺母
C473022×105JF-01	2×1.0	半桥 20~25KW	195	85	45	33+28	2×85A	1000	M8+2×M6 螺母
C473022×125JF-01	2×1.2	半桥 25~30KW	195	85	45	33+28	2×90A	1000	M8+2×M6 螺母
Un=3600V.DC									
C47362105JFM8-01	1.0	全桥 30KW Full Bridge	175	74	45	56	110A	1000	2×M8 螺母
C47362125JFM8-01	1.2	全桥 40KW	195	85	45	56	120A	1000	2×M8 螺母
C473621355JFM8-01	1.35	全桥 50KW	205	94	45	56	130A	1000	2×M8 螺母

以上表格/图形仅供参考,以实物为准,(单位:mm)
备注:最大电流Irms为f=100kHz,Tamb=70℃ △T≤15℃的值。