

## C47 系列 高压谐振模块电容

### 主要应用 Application

- 广泛应用于商用电磁炉和感应加热设备的半桥、全桥谐振电路。
- Widely used in half-bridge,full bridge,s resonant circuit of commercial induction cooker and induction heater.

### 产品特点 Characteristics

电介质：聚丙烯薄膜

- Dielectric: Polypropylene film

结构：金属化膜干式结构

- Construction: Extended metalized film, dry connection

封装：金属铝外壳，阻燃（94V-0）环氧封装

- Coating: Aluminum case with resin sealing. Flame retardant execution (UL94V-0)

引出：镀锡铜螺母

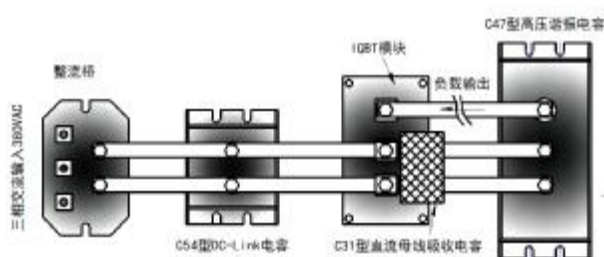
- Terminals: Tinned copper nut extraction

具有耐压高，电流大，体积小，温升高，寿命长等优点。一体化铝壳散热结构，直接紧贴散热片散热。机芯内部可做全密封、防水、防油烟等。

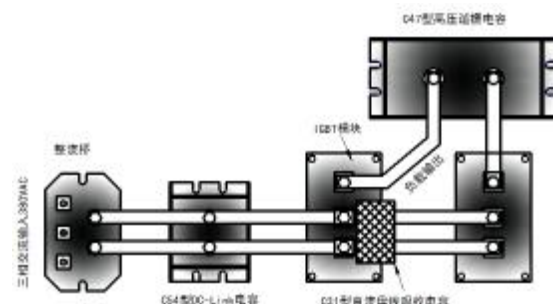
- Withstand high voltage, heavy current, small size, low temperature rise, long lifetime. Inegrated aluminum radiant structure, close to the radiant panel. The internal movement of the modules are sealed, waterproof and so on.

### 典型链接图/ Typical link figure

半桥结构



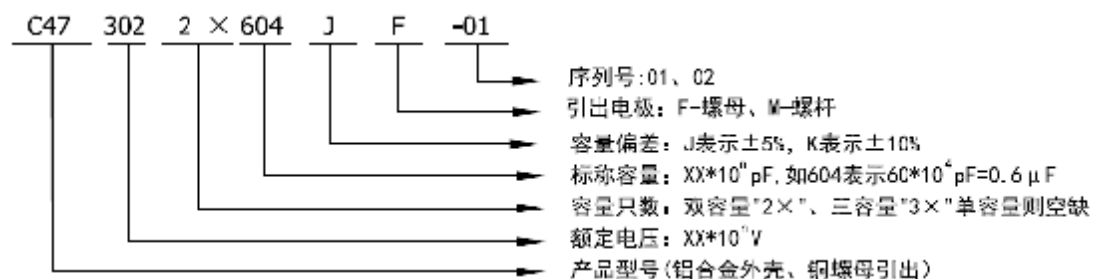
全桥结构



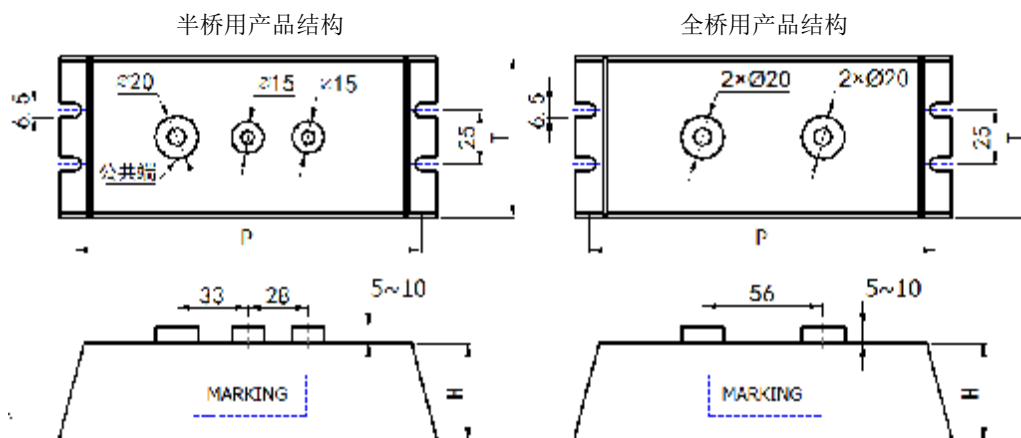
### 性能指标 Specifications

引用标准/Reference standards	GB/T17702 IEC61071
工作温度范围/Operating temperature range	-40°C ~ 85°C
容量范围/Capacitance	2 × (0.4 ~ 1.4 μF)
额定电压/Rated Voltage	1200VDC ~ 4000VDC
电容量偏差/Tolerance	±5%、±10%
损耗角正切值/Dissipation factor	tgδ ≤ 10 × 10 <sup>-4</sup> 1KHz 25°C ± 5°C
极间耐电压/Test voltage between	1.5Ur 10S 25°C ± 5°C
极壳耐电压/Test voltage between and case	3,000VAC 50Hz 60S 25°C ± 5°C
绝缘电阻/Insulation resistance	RC ≥ 5000S, at 100VDC, 60S 25°C ± 5°C
耐电流冲击能力/Withstand strike current ability	dv/dt ≥ 1000V/μs
有效电流/Effective current	30A ~ 100A
杂散电感/Stray inductance	≤ 30nH
预期寿命/Life expectancy	200,000h at Ur and 70°C

产品编码/Part Numbering System



产品外形及参考尺寸/Product shape and size for reference



常规尺寸/ Regular size

Un=2500V.DC

CAP (μF)	Part Number	参考功率	L (mm)	T (mm)	H (mm)	P1+P2 (mm)	I <sub>rms</sub> (A)	dv/dt (V/μs)	引出方式
2×0.9	C472522×904JF-01	半桥 30KW	175	74	45	33+28	2×90A	1000	M8+2×M6螺母

Un=3000V.DC

CAP (μF)	Part Number	参考功率	L (mm)	T (mm)	H (mm)	P1+P2 (mm)	I <sub>rms</sub> (A)	dv/dt (V/μs)	引出方式
2×0.6	C473022×604JF-01	半桥 20KW	165	65	45	33+28	2×60A	1000	M8+2×M6螺母
2×0.7	C473022×704JF-01	半桥 25KW	175	74	45	33+28	2×70A	1000	M8+2×M6螺母
2×0.8	C473022×804JF-01	半桥 30KW	175	74	45	33+28	2×80A	1000	M8+2×M6螺母
2×0.9	C473022×904JF-01	半桥 30KW	195	85	45	33+28	2×90A	1000	M8+2×M6螺母

Un=3600V.DC

CAP (μF)	Part Number	参考功率	L (mm)	T (mm)	H (mm)	P1+P2 (mm)	I <sub>rms</sub> (A)	dv/dt (V/μs)	引出方式
1.0	C47362105JF-01	全桥 40KW	175	74	45	56	120A	1000	2×M8螺母
1.2	C47362125JF-01	全桥 50KW	195	85	45	56	150A	1000	2×M8螺母
1.35	C473621355JF-01	全桥 60KW	205	94	45	56	180A	1000	2×M8螺母