

Approval Sheet

Type BC**41** Resonant Capacitor

Description: P/N: YZPST-BC41-BE1-500KVAR-700VAC-6.3UF

Code: BC**41701635KBE1501-01**

产品特点.Characteristics

- 水冷式;
- 聚丙烯介质;
- 损耗($\text{tg}\delta$)小, 自感(ESL)小, 等效串联电阻(ESR)小;
- 高电压、高频率、高 dv/dt 特性、承受大电流, 散热性能好
- Conduction water-cooled
- Polypropylene dielectric
- Low dissipation factor($\text{tg}\delta$), low ESL and low ESR
- High voltage, high frequency and high dv/dt , Excellent heat dissipation
It can be bear large current

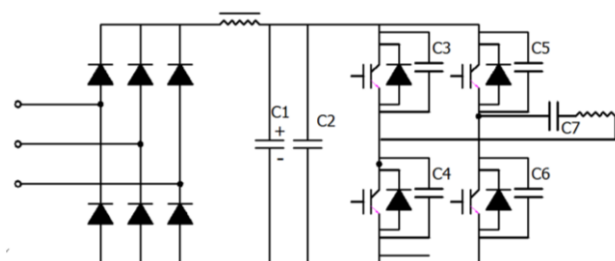
产品应用. Application

- 广泛应用于大功率的高频谐振设备中
- Widely used in high power and high frequency resonant devices

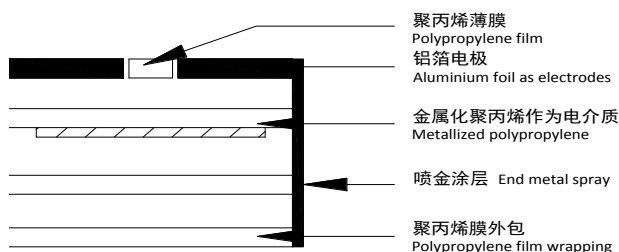
能参数.Technical data

引用标准/Reference standards	GB/T 3984-2004 IEC 60110.1
工作温度范围 /Operating temperature range	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
容量范围/Capacitance range	6.3 μF
额定容量/ Rated capacitance	500 kVar
额定电压 Rated voltage	700VAC
容量偏差/Tolerance	$\pm 10\%$
极间耐电压 /Test voltage between terminals	1.5 U_{NAC} 10s 3.0 U_{NDC} 10s at $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$
损耗角正切/Dissipation factor	$\text{tg}\delta \leq 5 \times 10^{-4}$ at $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$, 1kHz
绝缘电阻/Insulation resistance	$R \cdot C \geq 5000\text{s}$, at 100VDC, $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$, 60s
预期寿命/Life expectancy	100000hrs (U_{N} $\theta_{\text{hotspot}} \leq 70^{\circ}\text{C}$)

典型线路图.Typical circuit



结构图.Construction diagram



串联谐振电路中C7为水冷电容

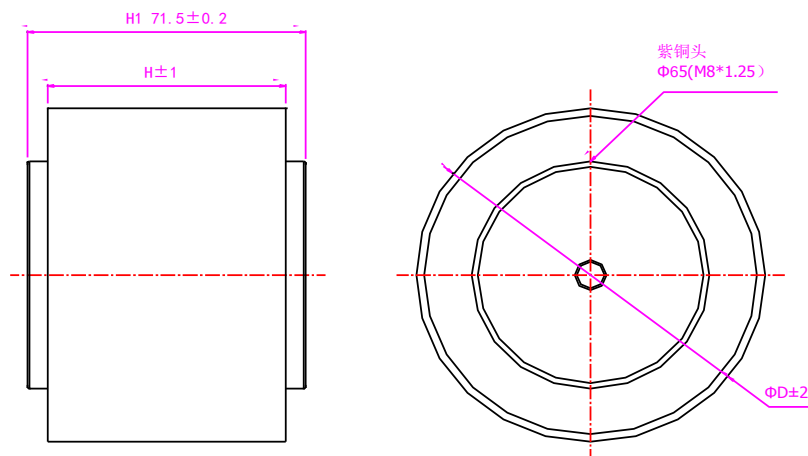
C7 is the water-cooled capacitor in the series resonant capacitor

产品规格书

产品编码.Product Coding

BC	4	1	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 Product model XX*10 ^N (pF)			外形编号 Shape number A1、A2 · · · An—Zn			序列号 Serial number 0.1、0.2 · · ·						
			容量偏差 Capacity deviation			水冷 Water Cooled			额定功率 Rated Power XX*10 ^N (Kvar)									
			J ±5%			T 是(Yes)												
			K ±10%			B 否(No)												

产品尺寸和引出方式.Capacitor Drawing and Terminal Style



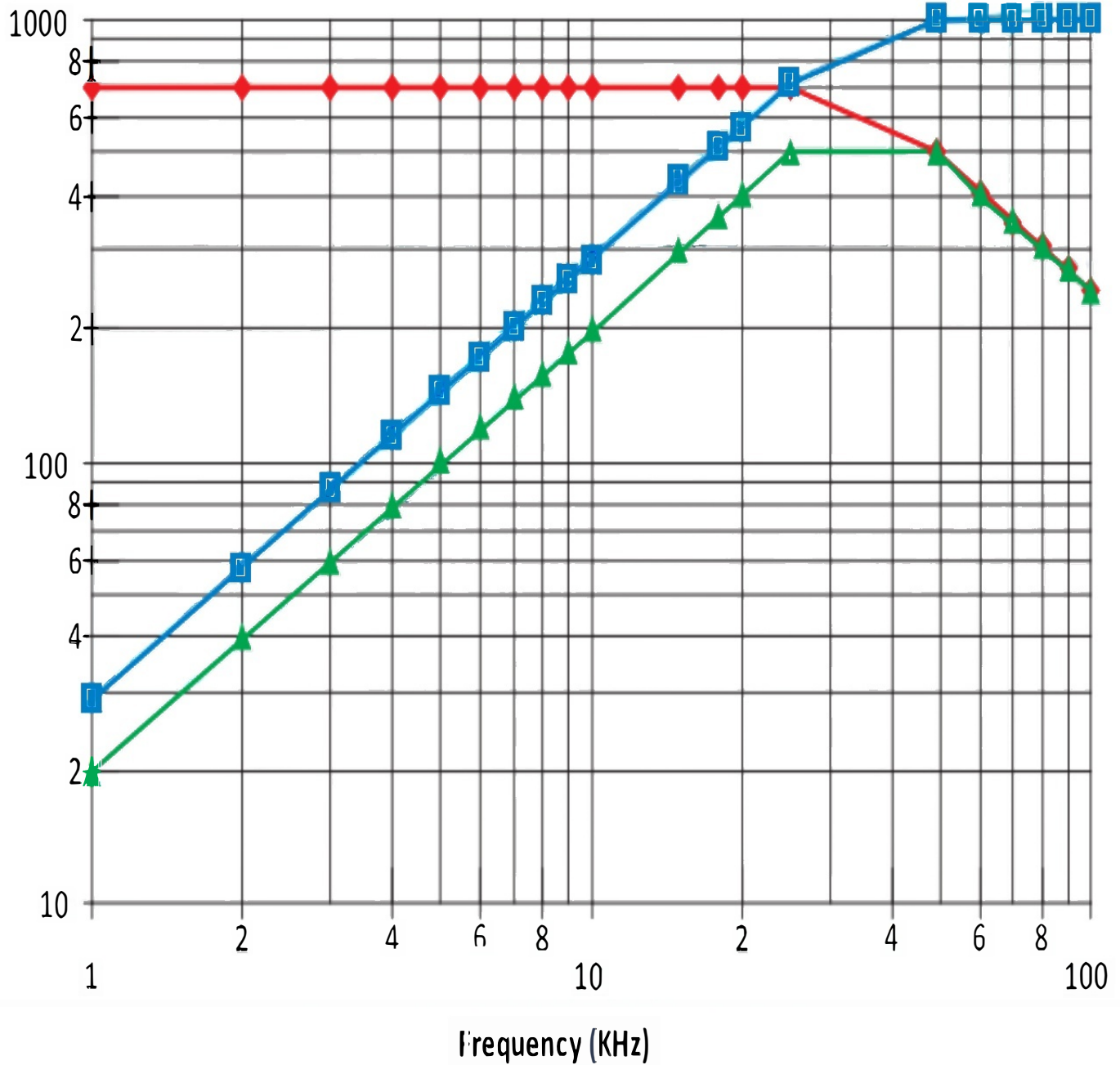
标志

BC41
BC41701635KBE1501-0
16.3uF ± 10% 700Vrms
500kVar
日期代码

Part Number	Rated Voltage Vrms	Nominal Capacitance μF at 1Khz	Max Irms A	Max Power kVar	Freq Range @Full Power (kHz)	ESR mΩ	Dimension (mm)			Case Code	weight
							D	H	H1		
BC41701635KBE1501-01	700	6.3	1000	500	26~51	0.8	88	60	71.5 ± 0.2	BE1	1.1kg

产品规格书

BC41-BE1-6.3 μ F-700Vac-1000A-500Kvar



BC41 6.3 μ F 700Vrms 1000A
500KVar
Frequency characteristic curves