

C41

Water Cooled Resonant Capacitor

水冷式谐振电容器

C41



产品特点.Characteristics

- 水冷传导方式;
- 聚丙烯介质;
- 损耗(tgδ)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(tgδ), low ESL and low ESR
- High voltage, high frequency and high dv/dt, High current resistance, excellent heat dissipation

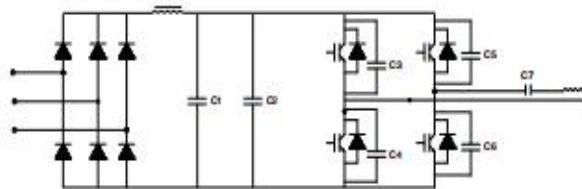
产品应用.Application

- 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

性能参数.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°C~+85°C
● 容量范围Capacitance range	0.1μF~85μF
● 额定容量Rated capacitance	100kVar-1500 kVar
● 额定电压Rated voltage	400VAC-1100VAC
● 容量偏差Tolerance	±5% ±10%
● 极间耐压 Test voltage between terminals	1.5U _{rac} 10s
	3.5U _{rac} 10s at 25°C±5°C
● 损耗角正切Dissipation factor	tgδ ≤ 5 × 10 ⁻⁴ at 25°C±5°C, 1kHz
● 绝缘电阻Insulation resistance	R-C ≥ 3000s, at 100VDC, 25°C±5°C, 60s
● 预期寿命Life expectancy	100000h at U _{ra} and 70°C, 30000h at U _{rms}

典型线路图. Typical Circuit

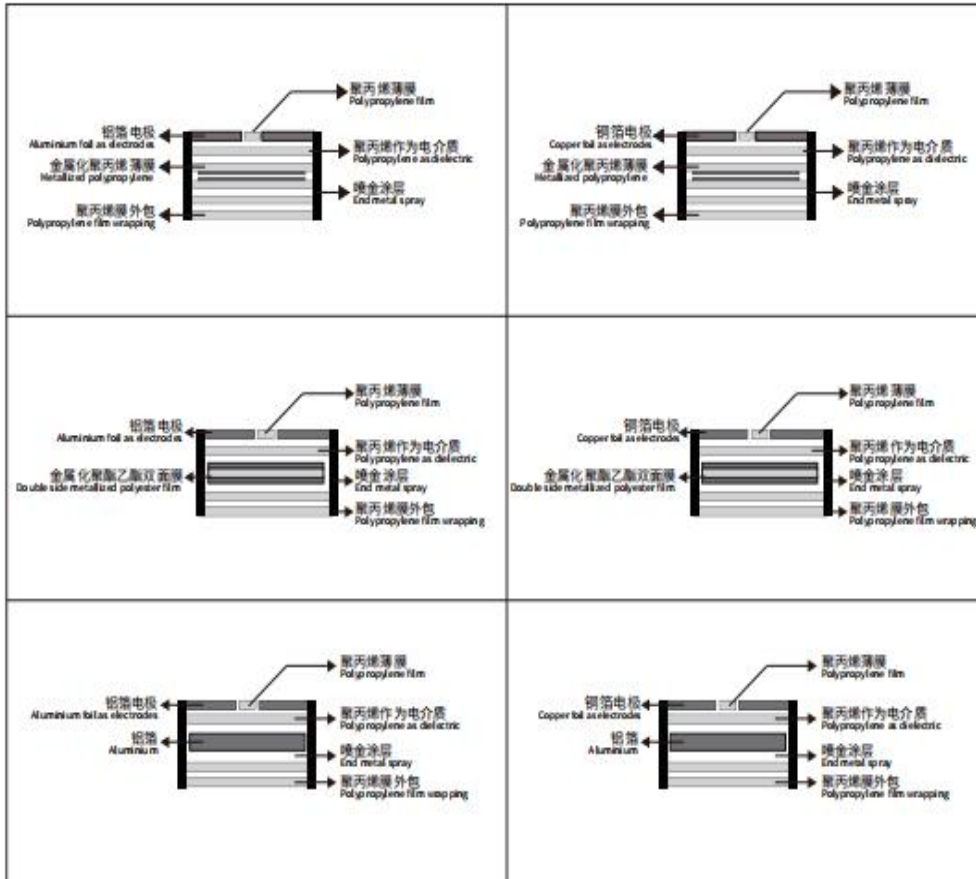


串联谐振电路中C7为水冷电容
C7 is the water-cooled capacitor in the series resonant capacitor

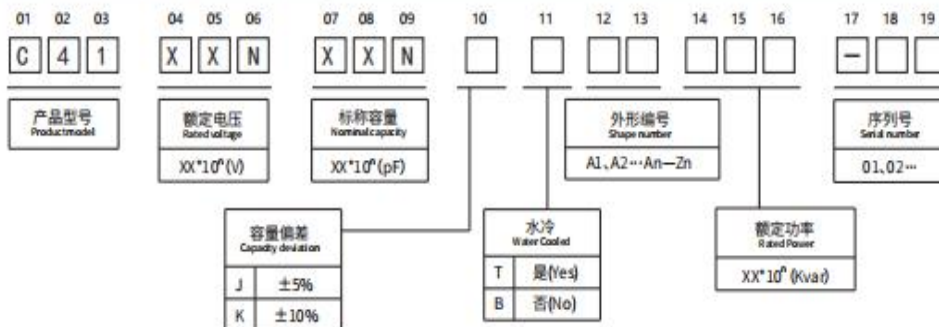
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结构图 Construction Diagram



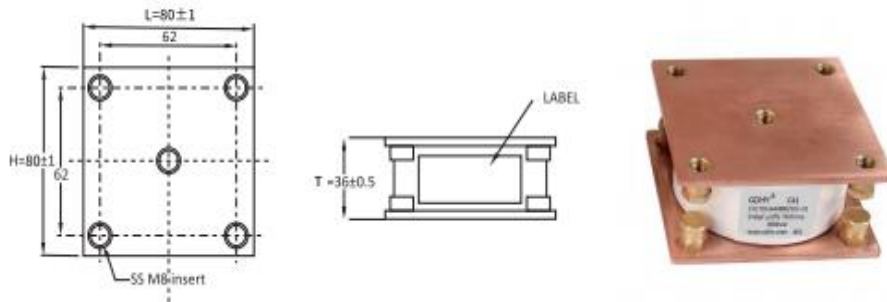
产品编码 Product Coding



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C41-BB2



参数表 Article Table

Part Number	Rated Voltage Vrms	Nominal Capacitance μF at 1kHz	Max Irms A	Max Power kW	Freq Range @Full Power (kHz)	ESR mΩ	Dimension (mm)			Case Code
							L	H	T	
GH1701254KBB2301--	700	0.25	500	300	390-530	1.2	80	80	36	BB2
GH1701334KBB2301--	700	0.33	500	300	295-401	1.0	80	80	36	BB2
GH1701664KBB2301--	700	0.66	500	300	147-200	0.8	80	80	36	BB2
GH1601105KBB2301--	600	1.00	650	300	132-223	0.5	80	80	36	BB2
GH1601125KBB2301--	600	1.20	650	300	111-187	0.5	80	80	36	BB2
GH1601135KBB2301--	600	1.32	650	300	100-170	0.3	80	80	36	BB2
GH1501245KBB2301--	500	2.40	650	300	80-97	0.2	80	80	36	BB2
GH1501265KBB2301--	600	2.60	650	300	72-85	0.2	80	80	36	BB2
GH1401505KBB2301--	400	5.00	800	300	59-67	0.1	80	80	36	BB2

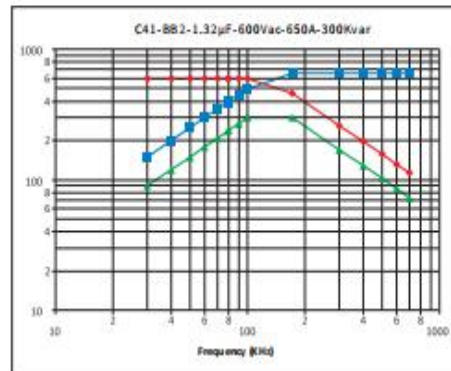
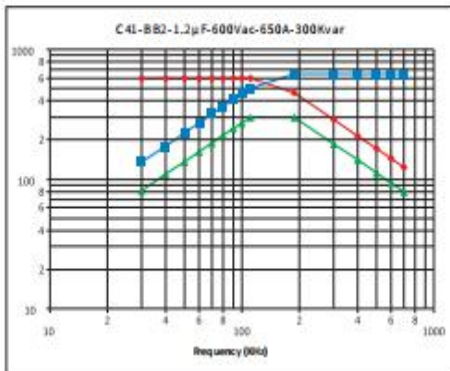
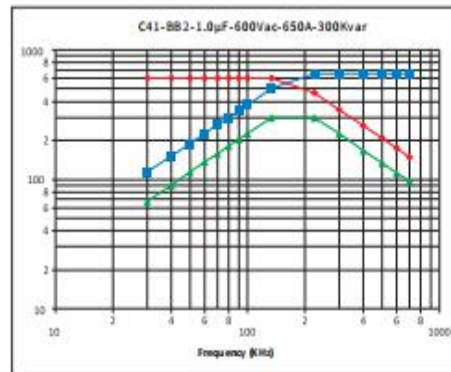
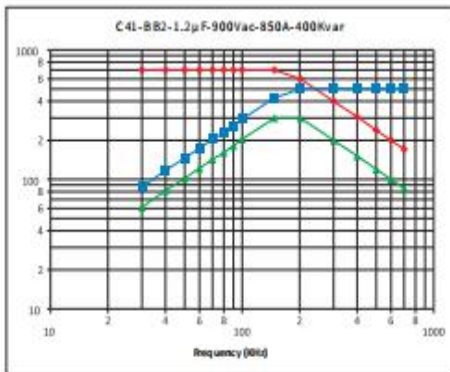
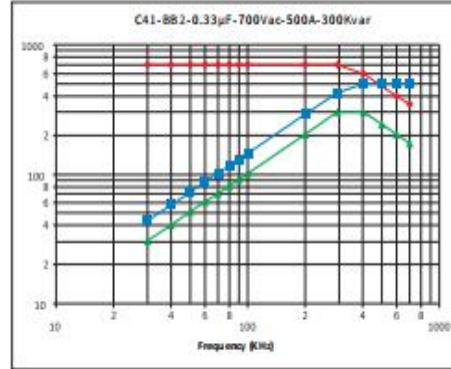
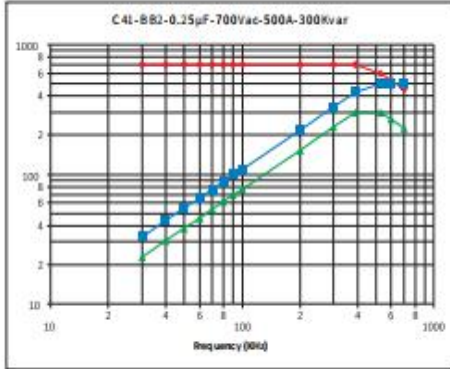
Part Number	Rated Voltage Vrms	Nominal Capacitance μF at 1kHz	Max Irms A	Max Power kW	Freq Range @Full Power (kHz)	ESR mΩ	Dimension (mm)			Case Code
							L	H	T	
GH1102334KBB2401--	1000	0.33	600	400	194-433	1.0	80	80	36	BB2
GH1102664KBB2401--	1000	0.66	600	400	95-216	0.8	80	80	36	BB2
GH1901125KBB2401--	900	1.20	850	400	66-219	0.3	80	80	36	BB2
GH1901135KBB2401--	900	1.32	850	400	58-215	0.3	80	80	36	BB2
GH1701265KBB2401--	700	2.60	950	400	51-138	0.2	80	80	36	BB2
GH1501505KBB2401--	500	5.00	1000	400	50-80	0.1	80	80	36	BB2
GH1102334KBB2401--	1000	0.33	600	400	194-433	1.0	80	80	36	BB2
GH1102664KBB2401--	1000	0.66	600	400	95-216	0.8	80	80	36	BB2
GH1901125KBB2401--	900	1.20	850	400	66-219	0.3	80	80	36	BB2

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频率特性 Temperature Characteristics

电压 Voltage 功率 Current 电流 Power

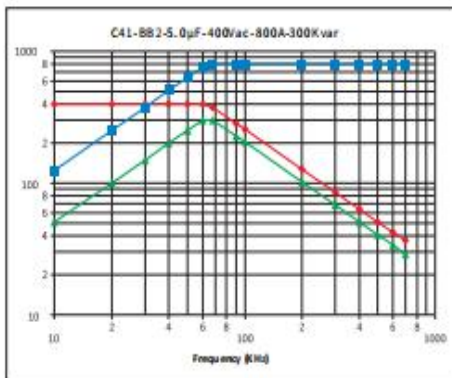
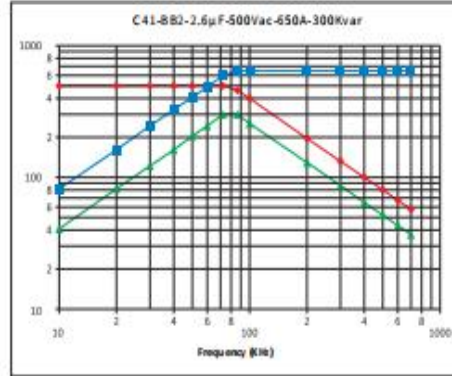
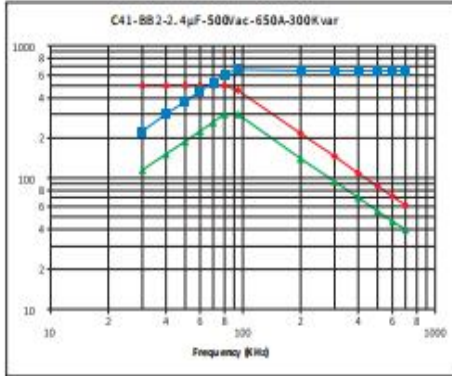


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频率特性. Temperature Characteristics

电压 Voltage 功率 Power 电流 Current



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