

C41

Water Cooled Resonant Capacitor

Water Cooled Resonant Capacitor C41-BB2



Characteristics

- Conduction water-cooled
- Polypropylene dielectric
- Low dissipation factor($tg\delta$), low ESL and low ESR
- High voltage, high frequency and high dv/dt
- High current resistance, excellent heat dissipation

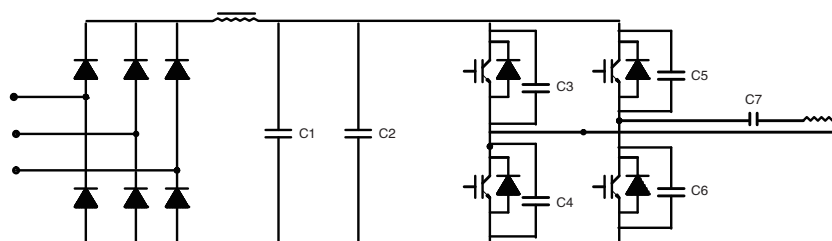
Application

- Widely used in high power and high frequency resonant devices

Technical Data

● Reference standards	GB/T 3984-2004 IEC 60110.1
● Operating temperature range	-40°C~+85°C
● Capacitance range	0.1µF~85µF
● Rated capacitance	100kVar-1500 kVar
● Rated voltage	400VAC-1100VAC
● Tolerance	±5% ±10%
● Test voltage between terminals	1.5U _{NAC} 10s
	3.5U _{NDC} 10s at 25°C±5°C
● Dissipation factor	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
● Insulation resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
● Life expectancy	100000h at U _N and 70°C, 30000h at Urms

Typical Circuit

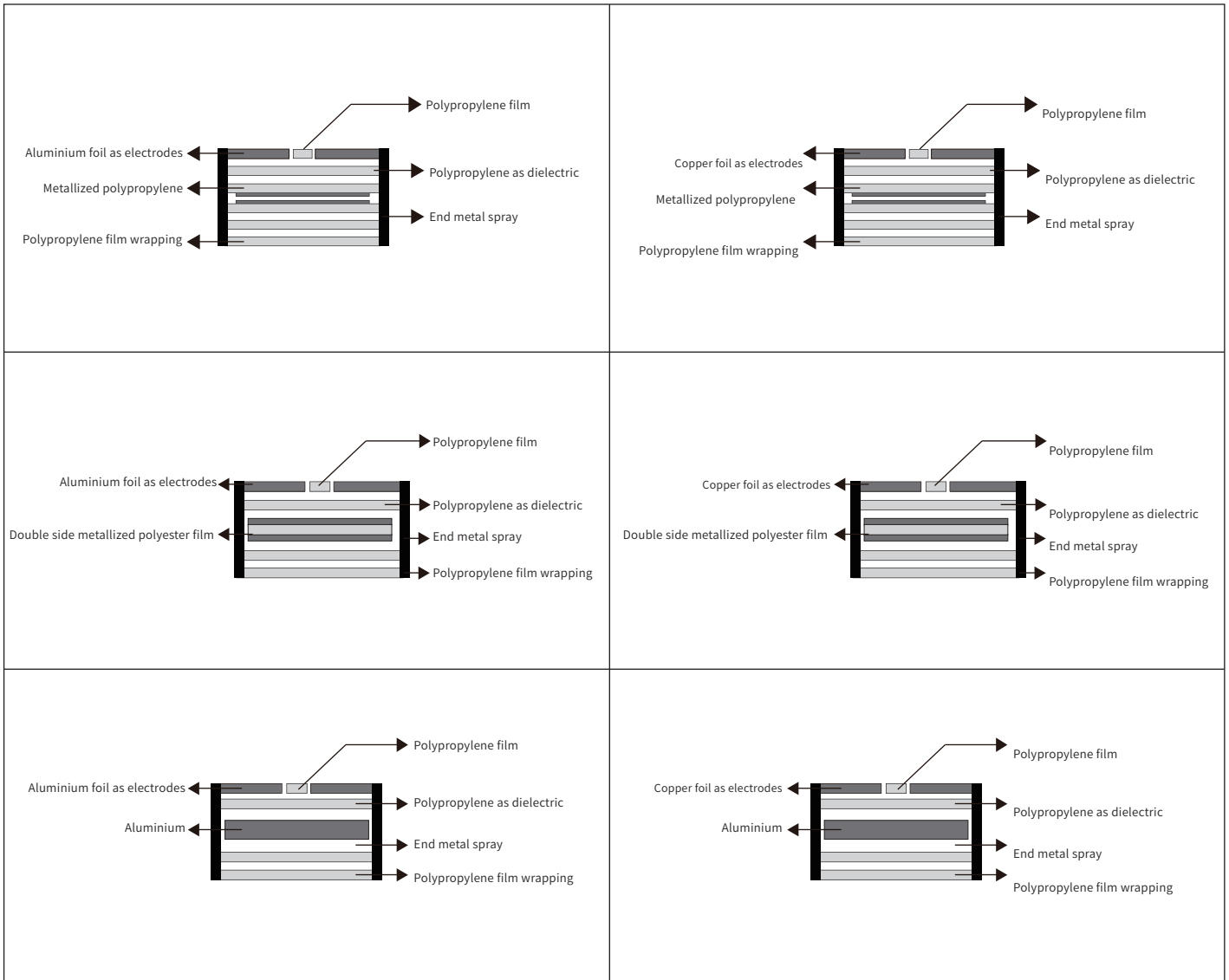


C7 is the water-cooled capacitor in the series resonant capacitor

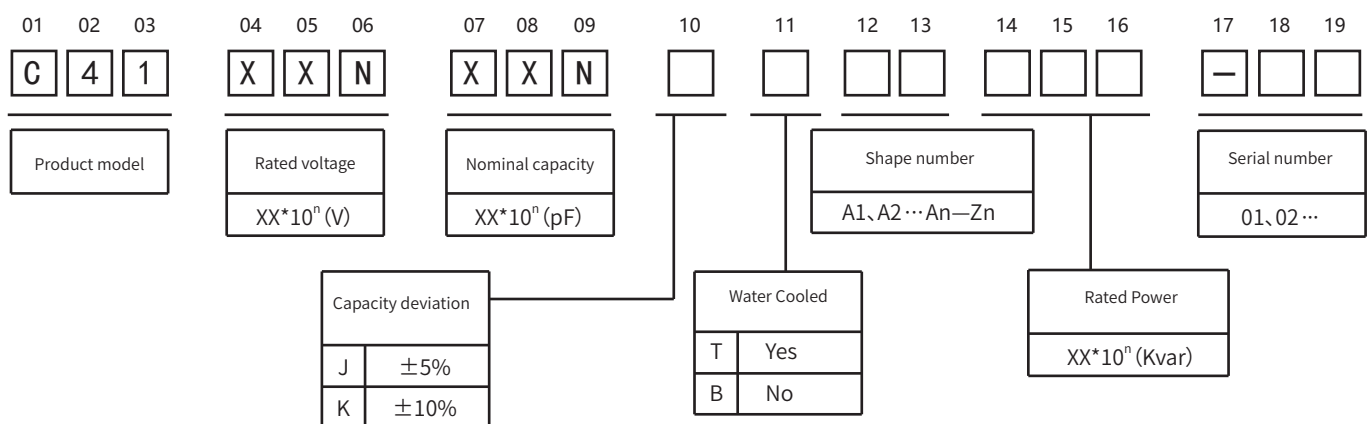
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Construction Diagram



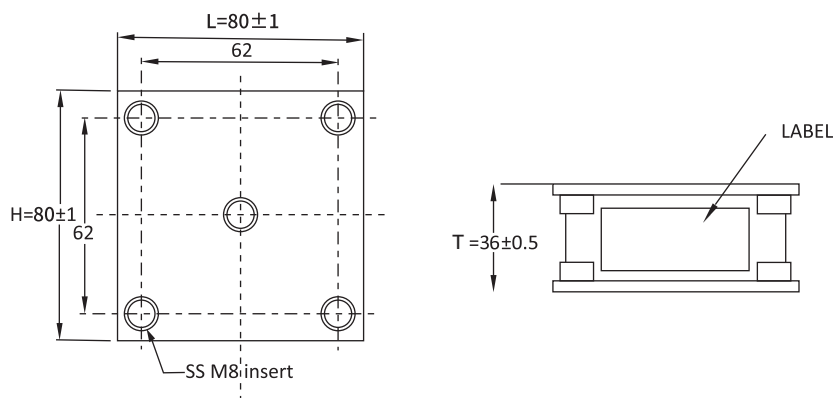
Product Coding



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Article Table

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
							L	H	T	
C41701254KBB2301...	700	0.25	500	300	390-530	1.2	80	80	36	BB2
C41701334KBB2301...	700	0.33	500	300	295-401	1.0	80	80	36	BB2
C41701664KBB2301...	700	0.66	500	300	147-200	0.8	80	80	36	BB2
C41601105KBB2301...	600	1.00	650	300	132-223	0.5	80	80	36	BB2
C41601125KBB2301...	600	1.20	650	300	111-187	0.5	80	80	36	BB2
C41601135KBB2301...	600	1.32	650	300	100-170	0.3	80	80	36	BB2
C41501245KBB2301...	500	2.40	650	300	80-97	0.2	80	80	36	BB2
C41501265KBB2301...	600	2.60	650	300	72-85	0.2	80	80	36	BB2
C41401505KBB2301...	400	5.00	800	300	59-67	0.1	80	80	36	BB2

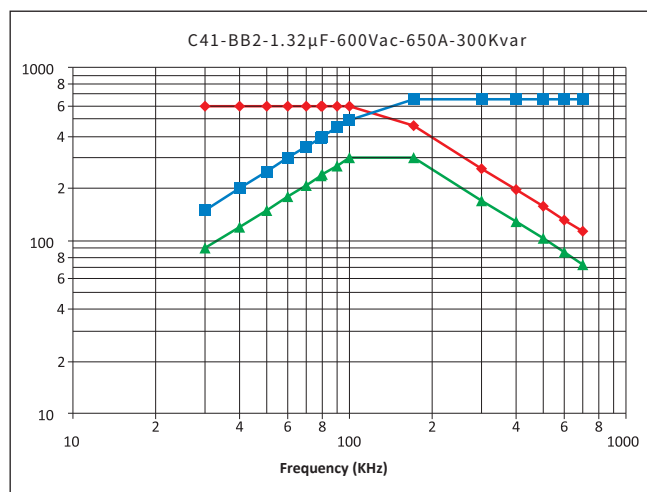
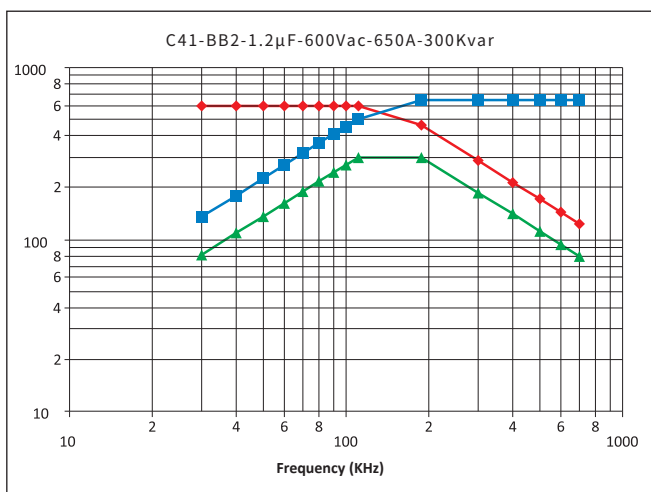
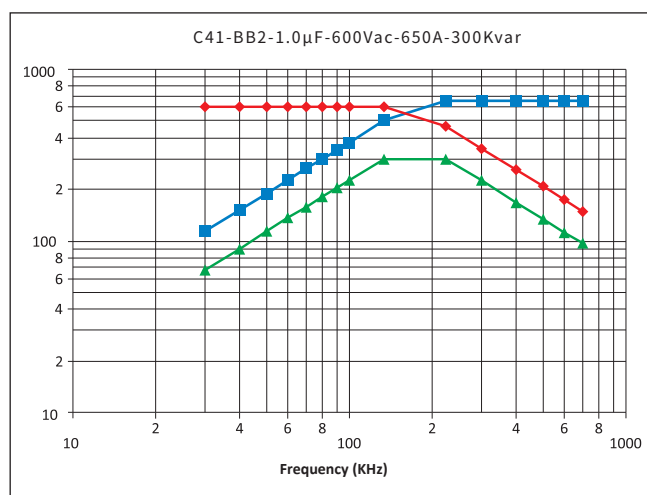
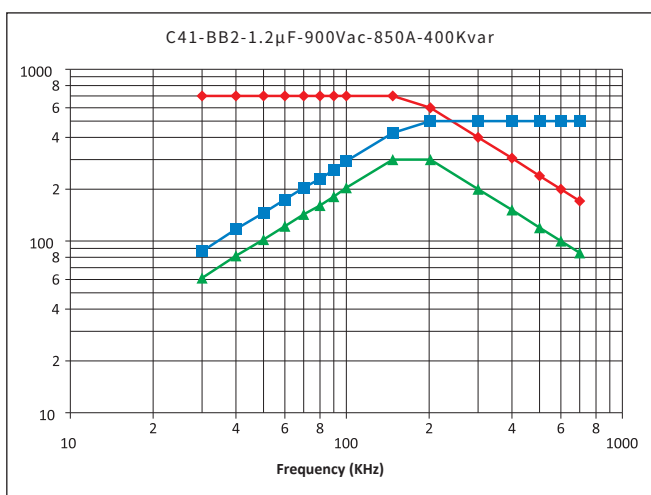
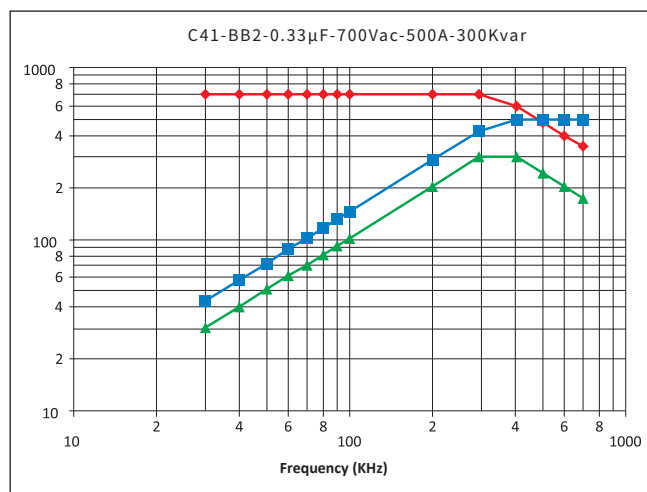
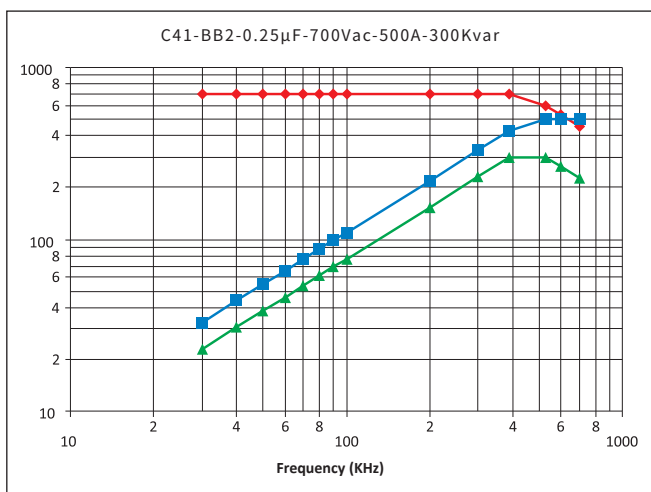
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							L	H	T	
C41102334KBB2401...	1000	0.33	600	400	194-433	1.0	80	80	36	BB2
C41102664KBB2401...	1000	0.66	600	400	95-216	0.8	80	80	36	BB2
C41901125KBB2401...	900	1.20	850	400	66-239	0.3	80	80	36	BB2
C41901135KBB2401...	900	1.32	850	400	58-215	0.3	80	80	36	BB2
C41701265KBB2401...	700	2.60	950	400	51-138	0.2	80	80	36	BB2
C41501505KBB2401...	500	5.00	1000	400	50-80	0.1	80	80	36	BB2
C41102334KBB2401...	1000	0.33	600	400	194-433	1.0	80	80	36	BB2
C41102664KBB2401...	1000	0.66	600	400	95-216	0.8	80	80	36	BB2
C41901125KBB2401...	900	1.20	850	400	66-239	0.3	80	80	36	BB2

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Temperature Characteristics

—●— Voltage —■— Current —▲— Power

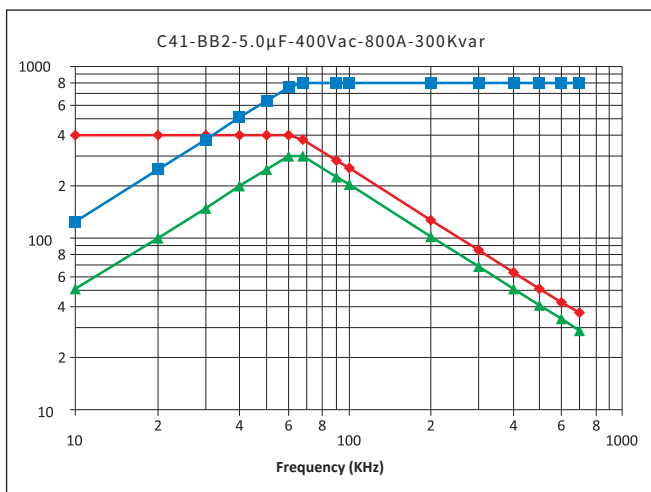
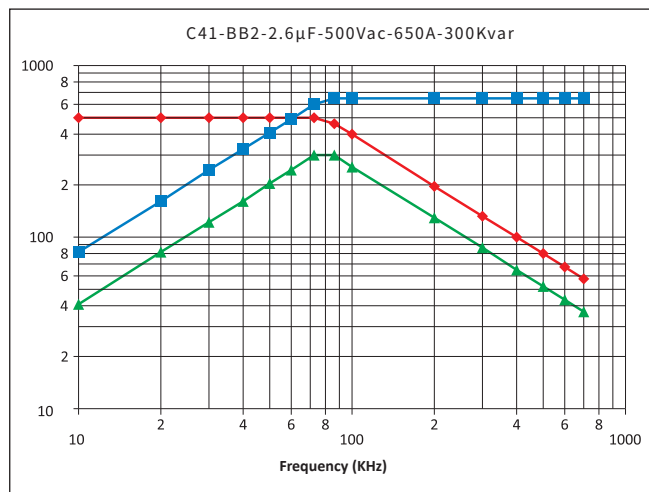
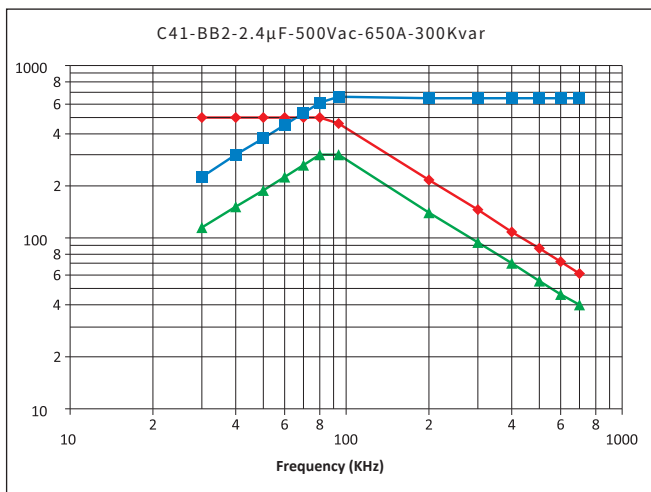


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