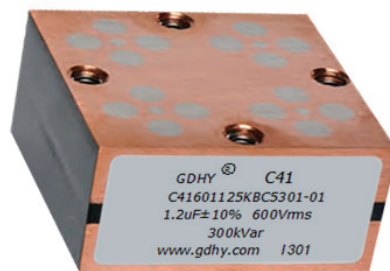


C41

Water Cooled Resonant Capacitor

Water Cooled Resonant Capacitor C41-BC5



Characteristics

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

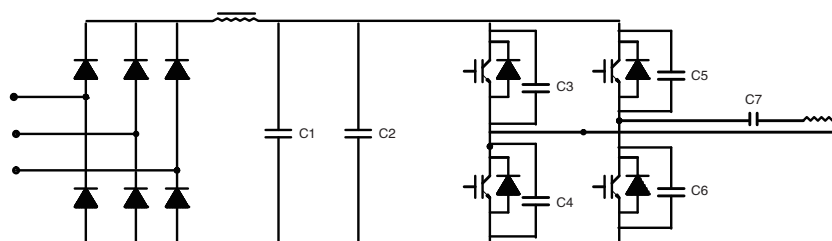
Application

- 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	0.1 μF ~85 μF
● Rated capacitance	100kVar-1500 kVar
● Rated voltage	400VAC-1100VAC
● Tolerance	$\pm 5\%$ $\pm 10\%$
● Test voltage between terminals	1.5 U_{NAC} 10s
	3.5 U_{NDC} 10s at 25°C $\pm 5^\circ\text{C}$
● Dissipation factor	$\text{tg}\delta \leq 5 \times 10^{-4}$ at 25°C $\pm 5^\circ\text{C}$, 1kHz
● Insulation resistance	$R \cdot C \geq 3000\text{s}$, at 100VDC, 25°C $\pm 5^\circ\text{C}$, 60s
● Life expectancy	100000h at U_{N} and 70°C, 30000h at U_{rms}

Typical Circuit

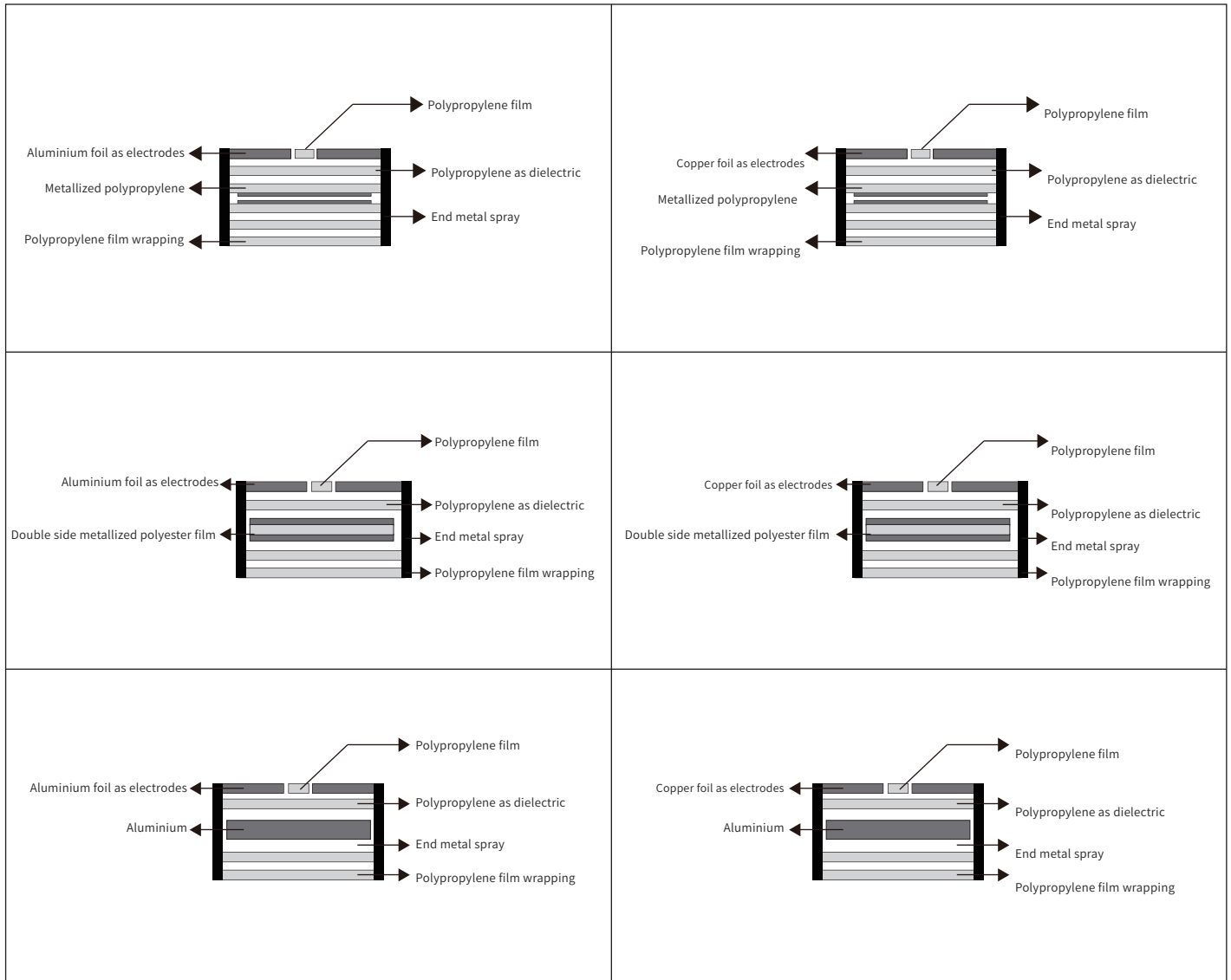


C7 is the water-cooled capacitor in the series resonant capacitor

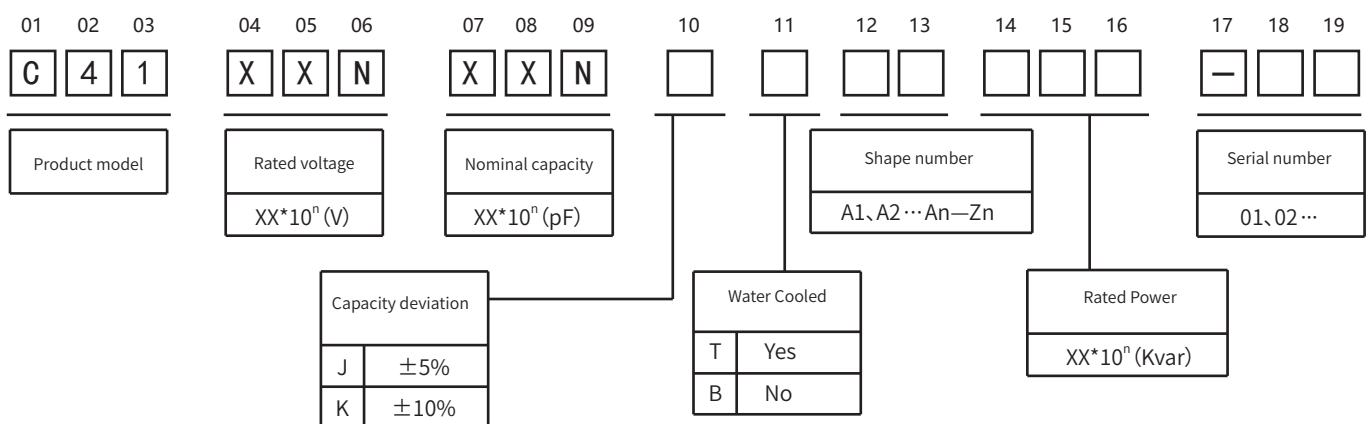
C41

Water Cooled Resonant Capacitor

Construction Diagram



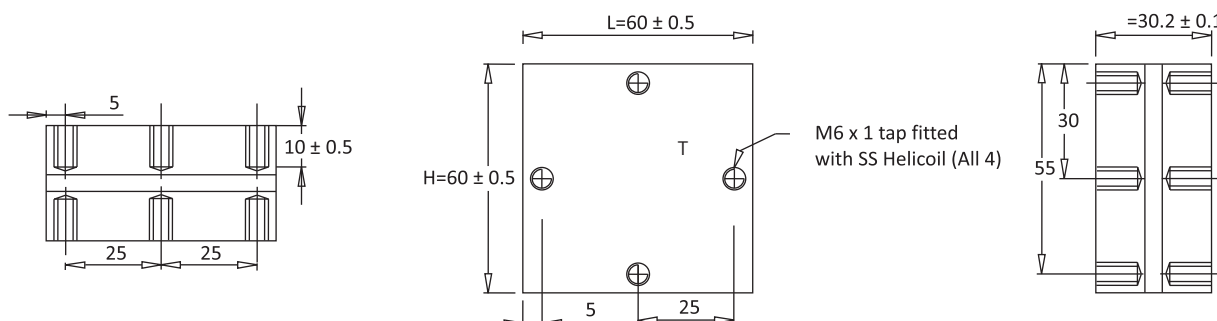
Product Coding



C41

Water Cooled Resonant Capacitor

C41—BC5



Article Table

Part Number	Rated Voltage Vrms	Nominal Capacitance μF at 1KHz	Max Irms A	Max Power kVar	Freq Range @Full Power (kHz)	ESR m Ω	Dimension (mm)			Case Code
							L	H	T	
C41102104KBC5301...	1000	0.10	350	300	476-649	1.2	60	60	30.2	BC5
C41102204KBC5301...	1000	0.20	400	300	238-423	1.2	60	60	30.2	BC5
C41701254KBC5301...	700	0.25	500	300	390-530	1.2	60	60	30.2	BC5
C41701334KBC5301...	700	0.33	500	300	295-401	1.0	60	60	30.2	BC5
C41701664KBC5301...	700	0.66	500	300	147-200	0.8	60	60	30.2	BC5
C41601105KBC5301...	600	1.00	650	300	132-223	0.5	60	60	30.2	BC5
C41601125KBC5301...	600	1.20	650	300	111-187	0.5	60	60	30.2	BC5
C41601135KBC5301...	600	1.30	650	300	100-170	0.3	60	60	30.2	BC5
C41501245KBC5301...	500	2.40	650	300	80-97	0.2	60	60	30.2	BC5
C41501265KBC5301...	500	2.60	650	300	72-85	0.2	60	60	30.2	BC5
C41401505KBC5301...	400	5.00	800	300	59-67	0.1	60	60	30.2	BC5
C41102334KBC5401...	1000	0.33	600	400	194-433	1.0	60	60	30.2	BC5
C41102664KBC5401...	1000	0.66	600	400	95-216	0.8	60	60	30.2	BC5
C41901125KBC5401...	900	1.20	850	400	58-215	0.3	60	60	30.2	BC5
C41801135KBC5401...	900	1.30	850	400	58-215	0.3	60	60	30.2	BC5
C41701265KBC5401...	700	2.60	950	400	51-138	0.2	60	60	30.2	BC5
C41501505KBC5401...	500	5.00	1000	400	50-80	0.1	60	60	30.2	BC5

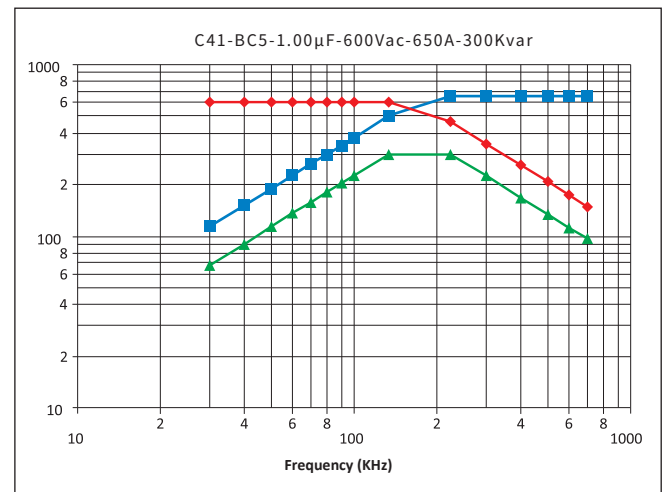
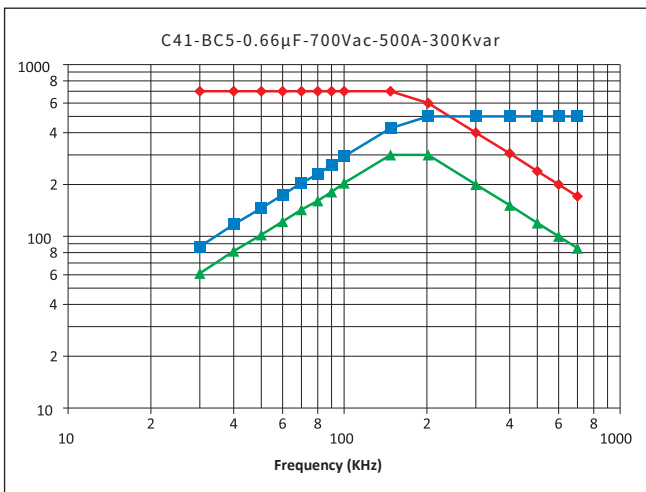
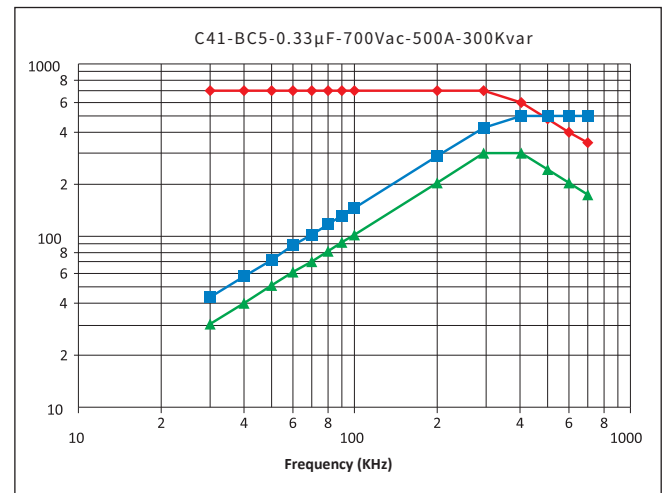
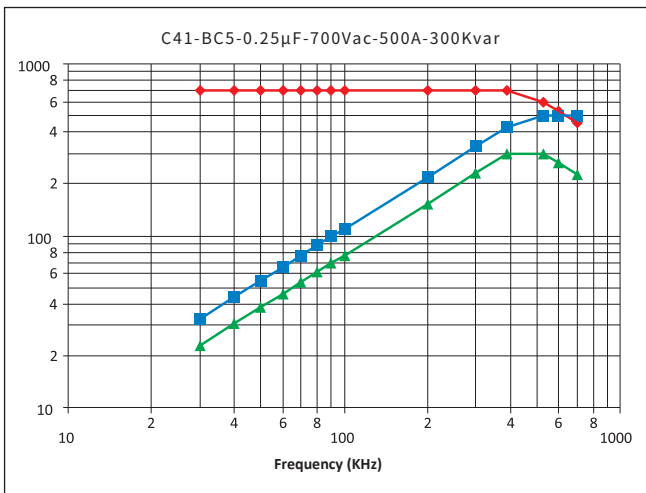
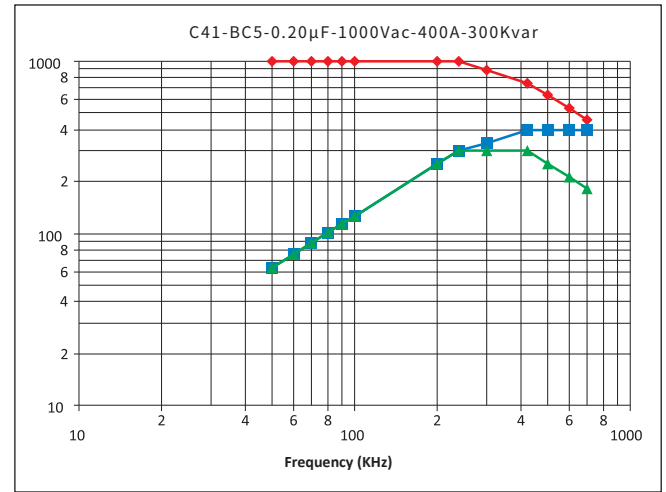
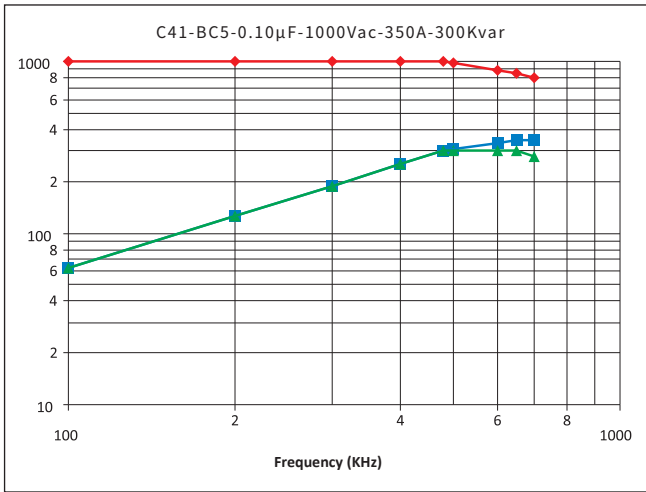
The above table / graphics are for reference only, subject to the actual product (unit: mm)

C41

Water Cooled Resonant Capacitor

Temperature Characteristics

—●— Voltage —■— Current —▲— Power

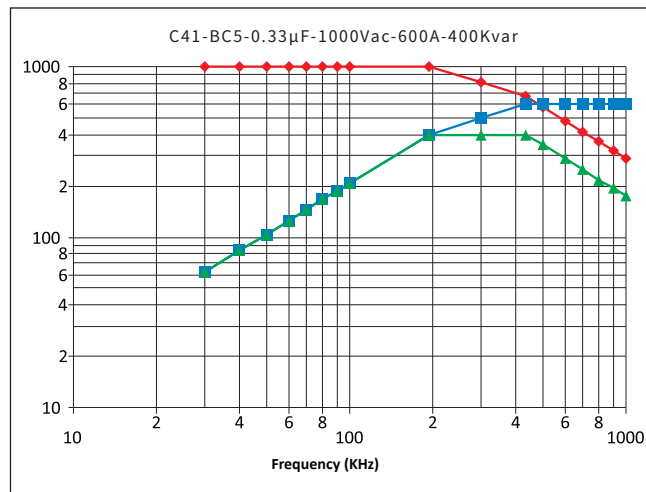
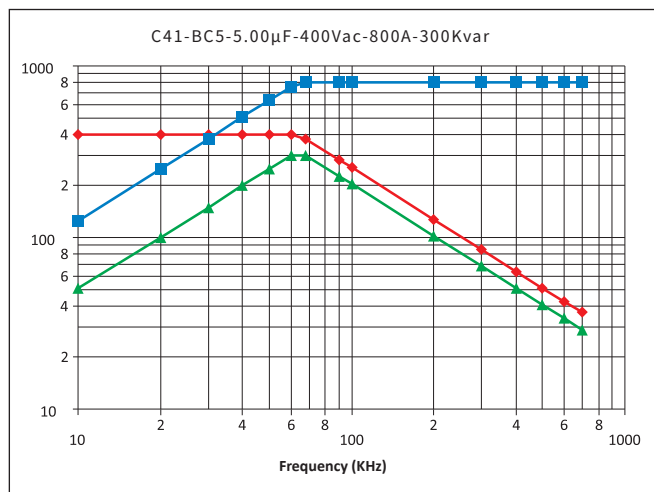
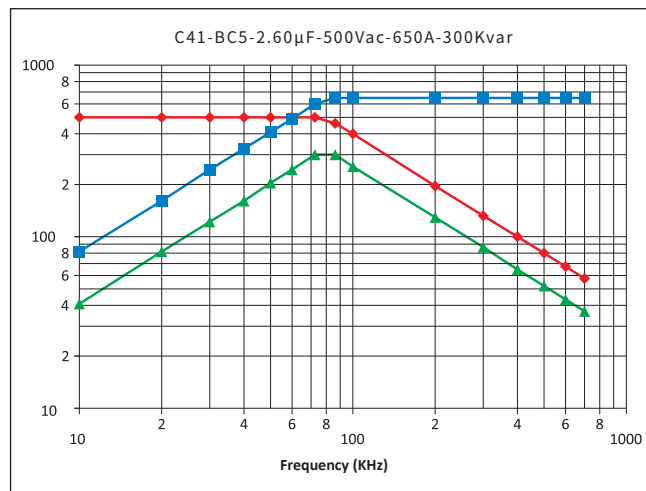
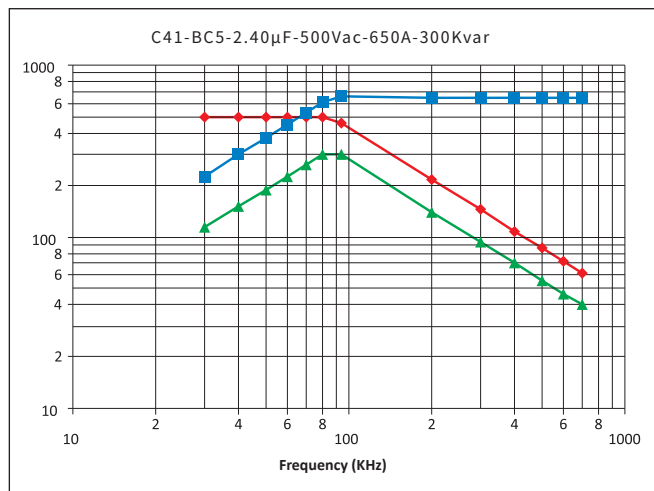
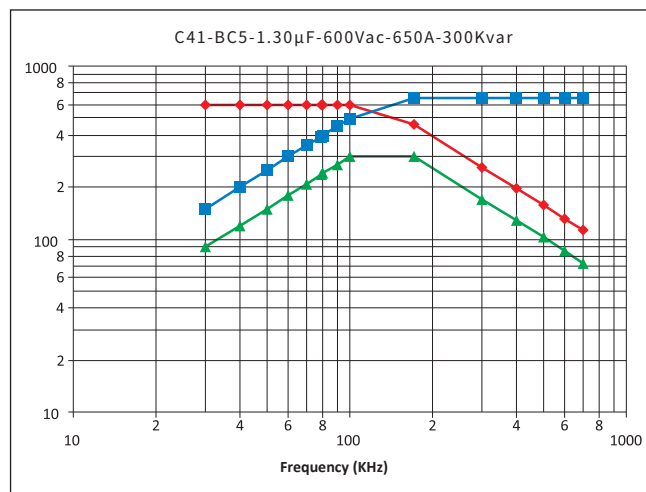
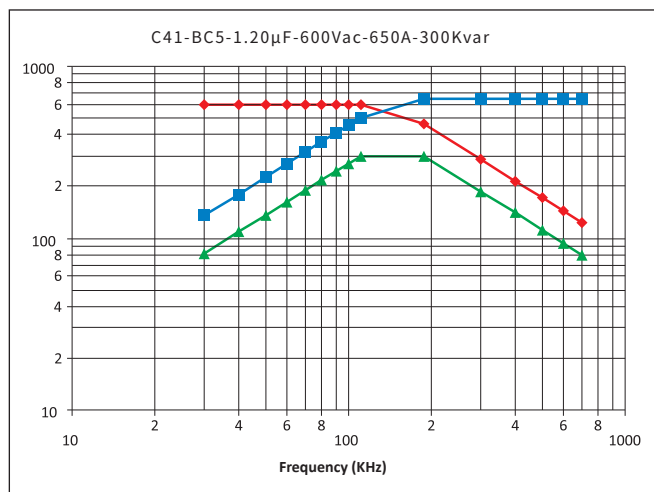


C41

Water Cooled Resonant Capacitor

Temperature Characteristics

—●— Voltage —■— Current —▲— Power



C41

Water Cooled Resonant Capacitor

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