

Water Cooled Resonant Capacitor



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

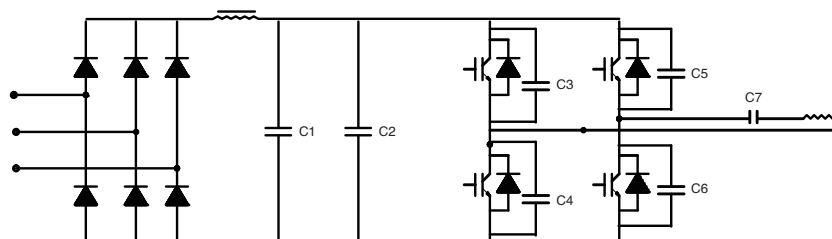
Application

- Widely used in high power and high frequency resonant devices

Technical Data

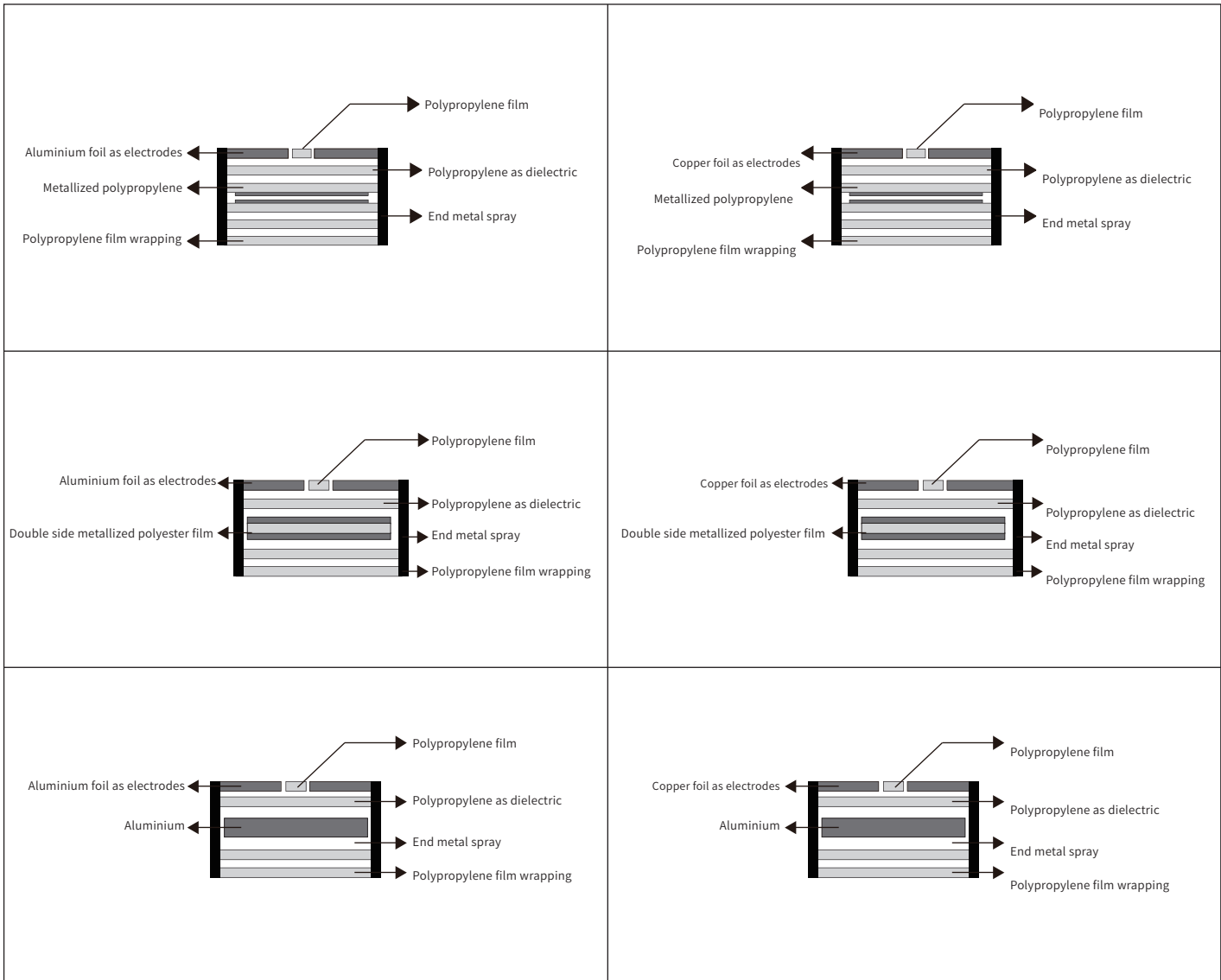
● Reference standards	GB/T 3984-2004 IEC 60110.1
● Operating temperature range	-40°C~+85°C
● Capacitance range	0.1 μF ~85 μF
● Rated capacitance	100kVar-1500 kVar
● Rated voltage	400VAC-1100VAC
● Tolerance	$\pm 5\%$ $\pm 10\%$
● Test voltage between terminals	1.5 U_{NAC} 10s
	3.5 U_{NDC} 10s at 25°C $\pm 5^\circ\text{C}$
● 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

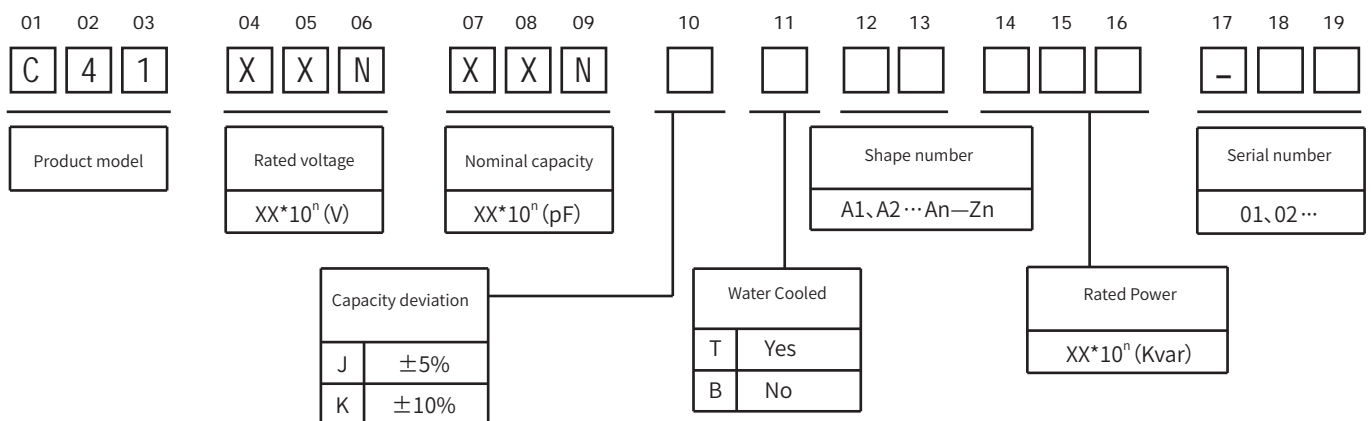


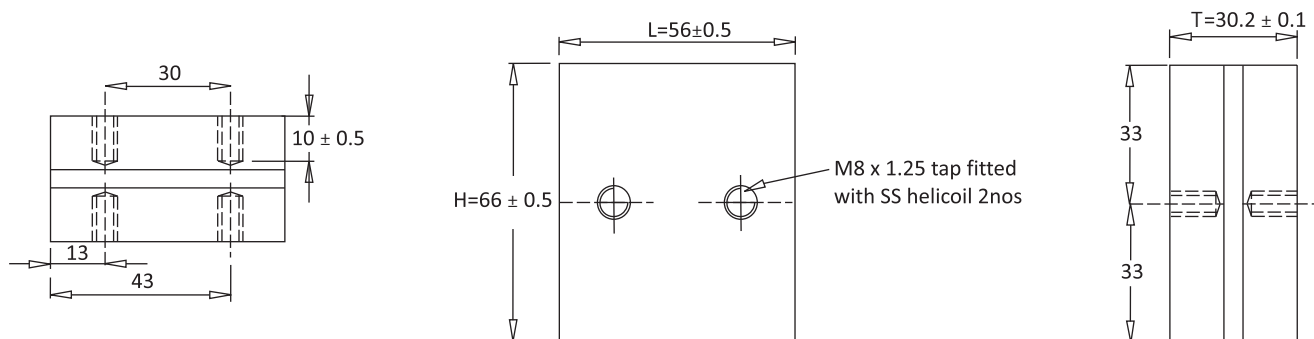
YZPST-C41 Water Cooled Resonant Capacitor

Construction Diagram



Product Coding

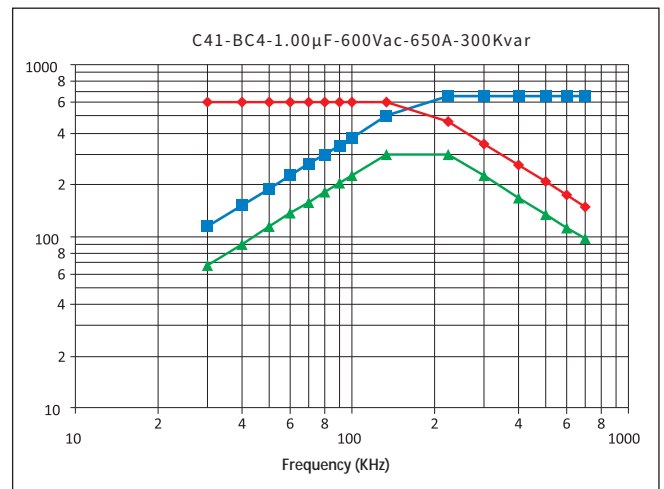
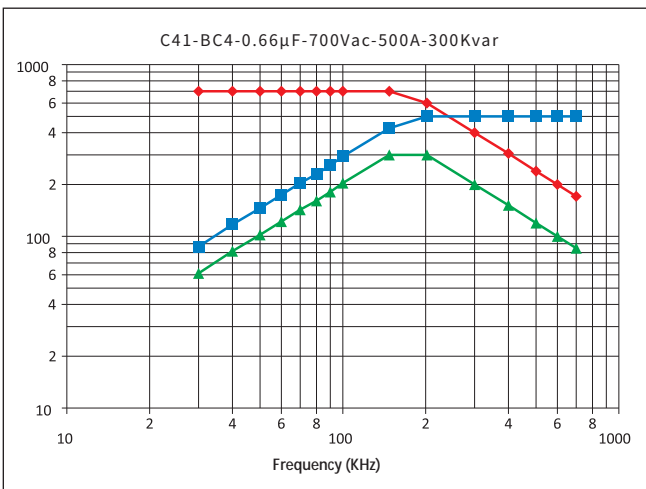
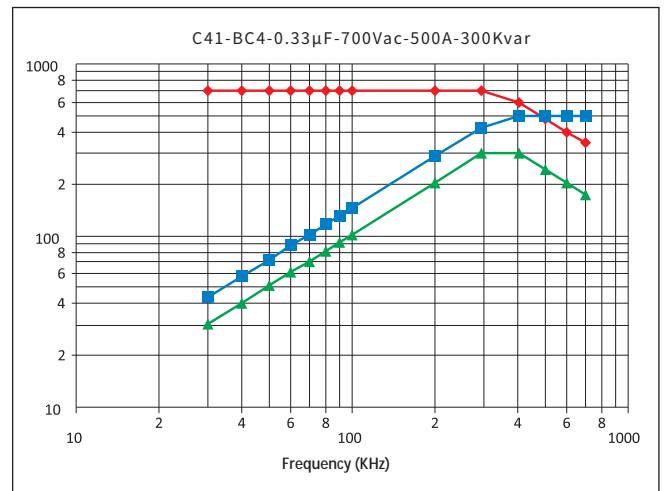
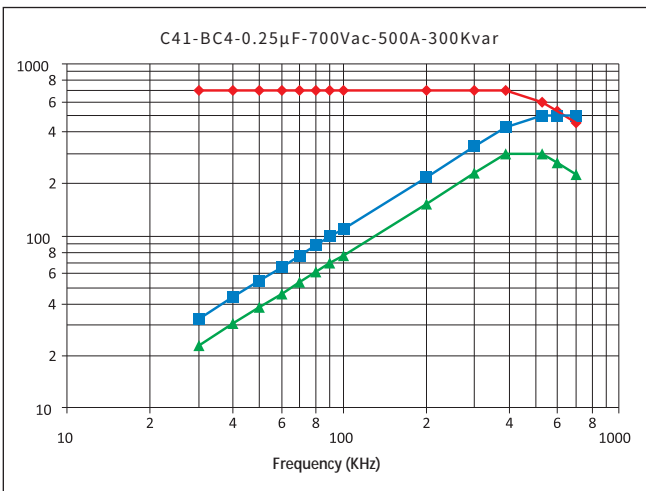
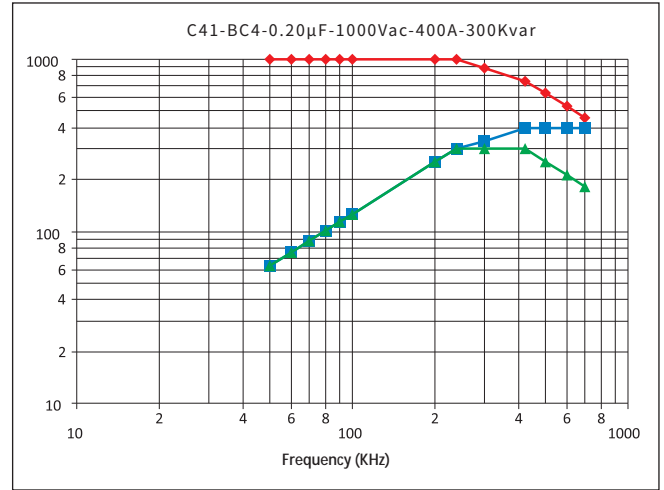
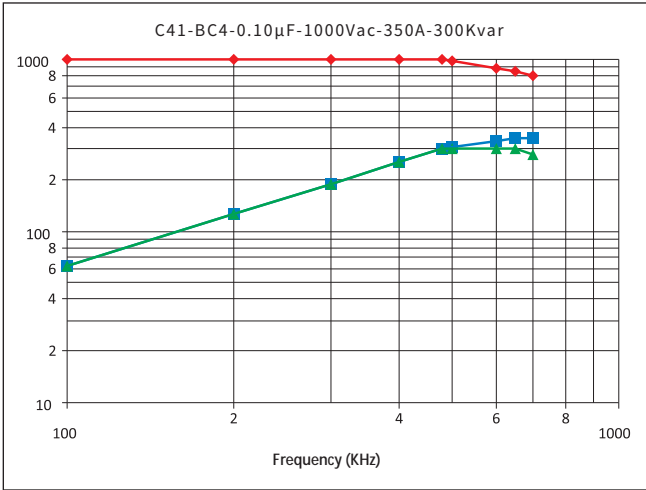




Article Table

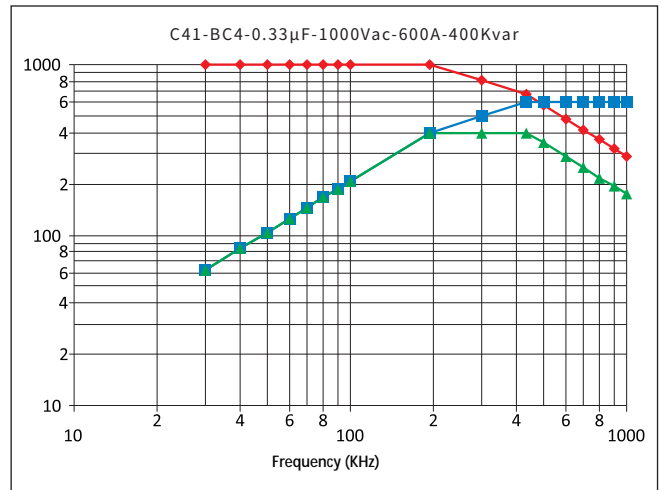
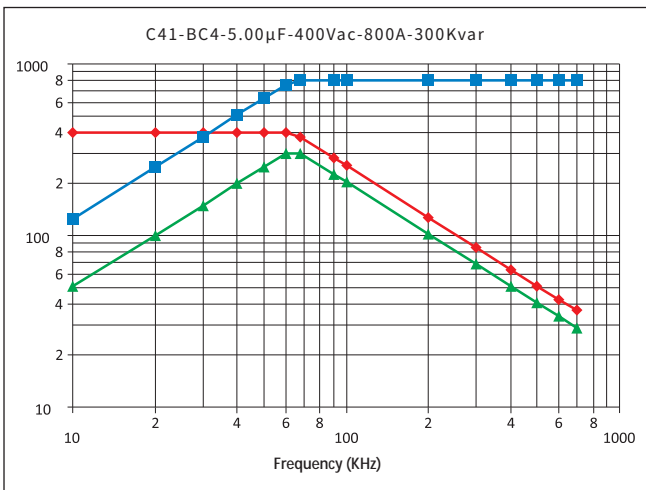
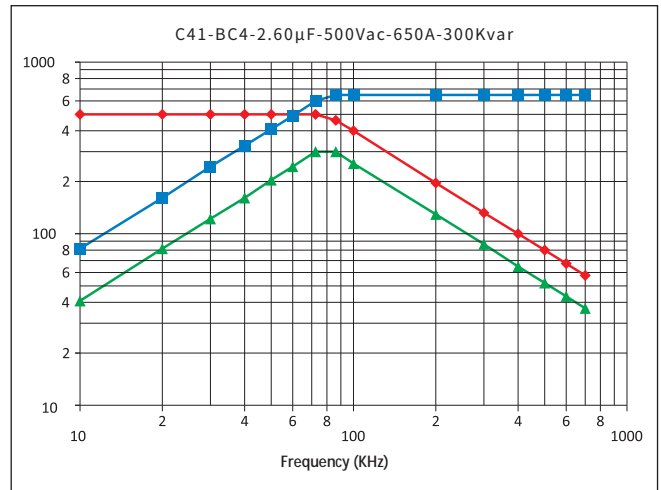
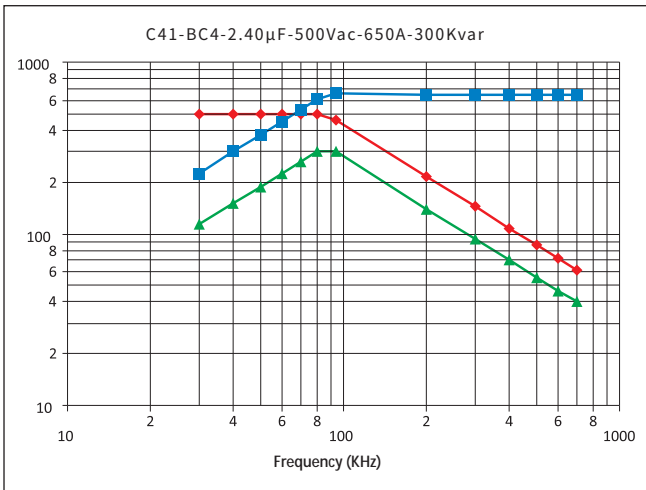
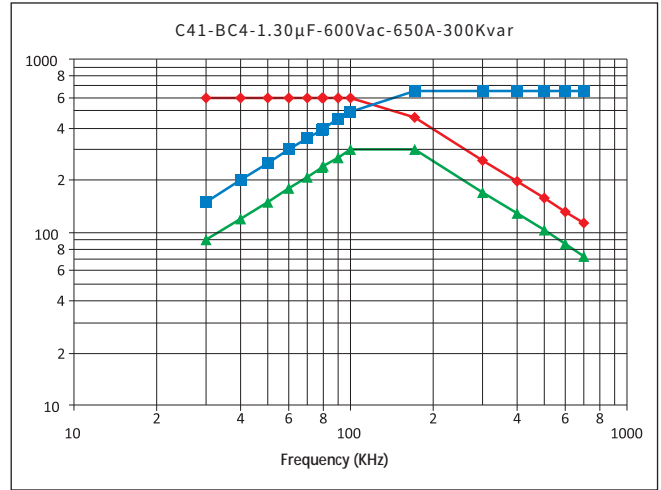
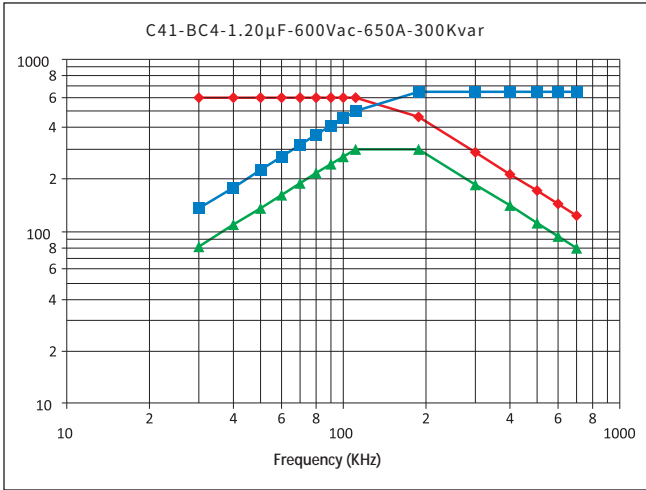
Part Number	Rated Voltage Vrms	Nominal Capacitance μF at 1Khz	Max Irms A	Max Power kVar	Freq Range @Full Power (kHz)	ESR $m\Omega$	Dimension (mm)			Case Code
							L	H	T	
C41102104KBC4301...	1000	0.10	350	300	476-649	1.2	56	66	30.2	BC4
C41102204KBC4301...	1000	0.20	400	300	238-423	1.2	56	66	30.2	BC4
C41701254KBC4301...	700	0.25	500	300	390-530	1.2	56	66	30.2	BC4
C41701334KBC4301...	700	0.33	500	300	295-401	1.0	56	66	30.2	BC4
C41701664KBC4301...	700	0.66	500	300	147-200	0.8	56	66	30.2	BC4
C41601105KBC4301...	600	1.00	650	300	132-223	0.5	56	66	30.2	BC4
C41601125KBC4301...	600	1.20	650	300	111-187	0.5	56	66	30.2	BC4
C41601135KBC4301...	600	1.30	650	300	100-170	0.3	56	66	30.2	BC4
C41501245KBC4301...	500	2.40	650	300	80-97	0.2	56	66	30.2	BC4
C41501265KBC4301...	500	2.60	650	300	72-85	0.2	56	66	30.2	BC4
C41401505KBC4301...	400	5.00	800	300	59-67	0.1	56	66	30.2	BC4
C41102334KBC4401...	1000	0.33	600	400	194-433	1.0	56	66	30.2	BC4
C41102664KBC4401...	1000	0.66	600	400	95-216	0.8	56	66	30.2	BC4
C41901125KBC4401...	900	1.20	850	400	58-215	0.3	56	66	30.2	BC4
C41801135KBC4401...	900	1.30	850	400	58-215	0.3	56	66	30.2	BC4
C41701265KBC4401...	700	2.60	950	400	51-138	0.2	56	66	30.2	BC4
C41501505KBC4401...	500	5.00	1000	400	50-80	0.1	56	66	30.2	BC4

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



YZPST-C41 Water Cooled Resonant Capacitor

Temperature Characteristics —●— Voltage —■— Current —▲— Power



YZPST-C41 Water Cooled Resonant Capacitor

Temperature Characteristics —●— Voltage —■— Current —▲— Power

