

C41

Water Cooled Resonant Capacitor

Water Cooled Resonant Capacitor C41-BE1~BE3



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

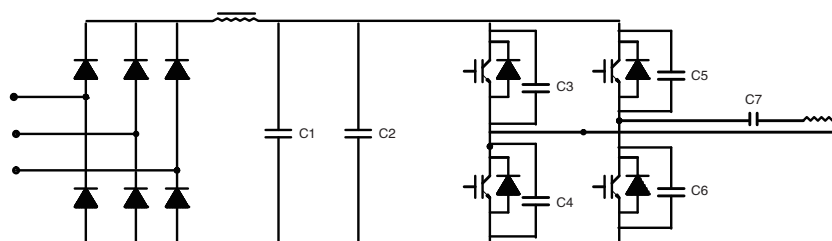
Application

- 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

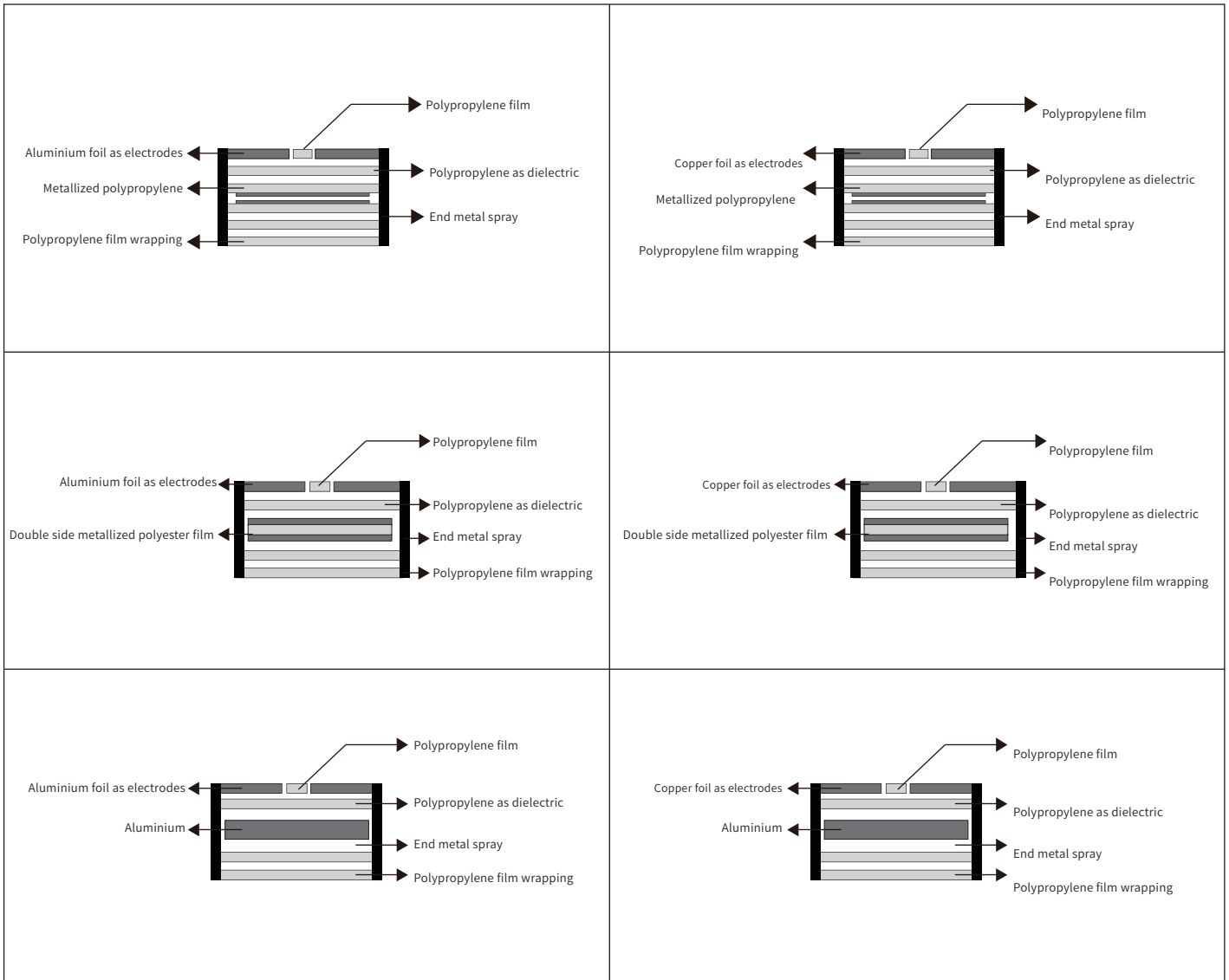


C7 is the water-cooled capacitor in the series resonant capacitor

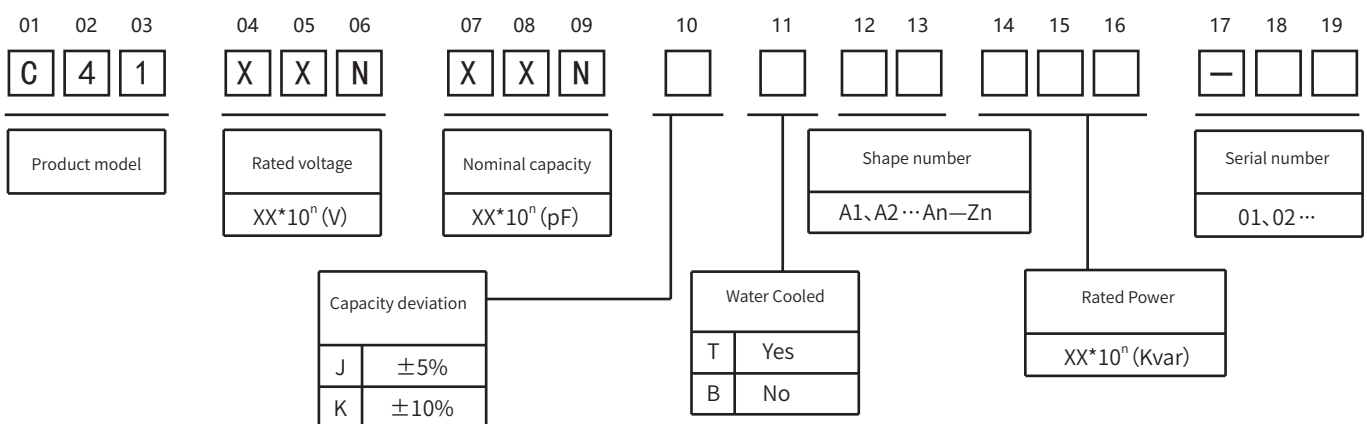
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Construction Diagram



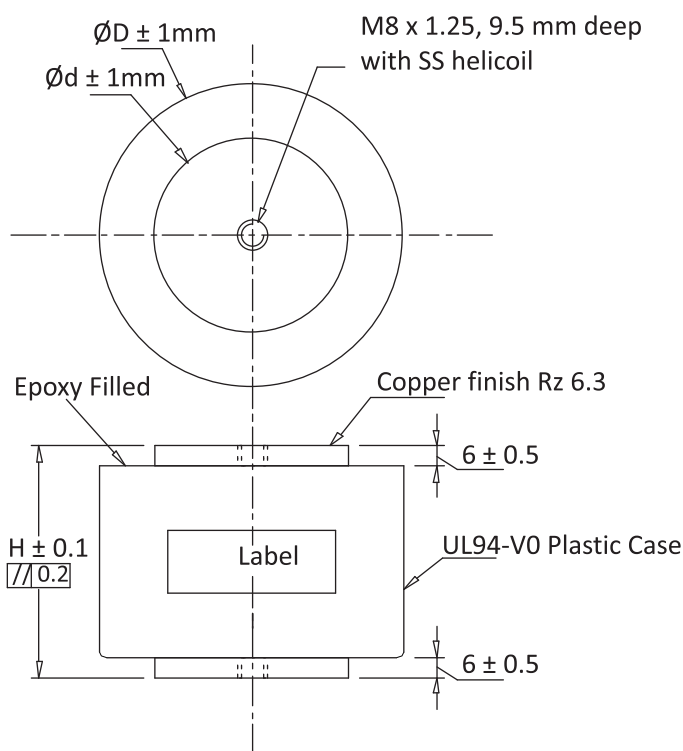
Product Coding



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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
							ΦD	H	Φd	
C41112125KBE1501...	1100	1.2	600	500	55-96	1.5	88	71.5	60	BE1
C41112145KBE1501...	1100	1.4	600	500	46-83	1.2	88	71.5	60	BE1
C41751305KBE1501...	750	3.0	800	500	47-68	1.1	88	71.5	60	BE1
C41751335KBE1501...	750	3.3	800	500	43-62	1.0	88	71.5	60	BE1
C41701565KBE1501...	700	5.6	1000	500	29-57	0.9	88	71.5	60	BE1
C41701635KBE1501...	700	6.3	1000	500	26-51	0.8	88	71.5	60	BE1
C41501216KBE1501...	500	21	1000	500	15	0.4	88	71.5	60	BE1
C41701855KBE2501...	700	8.5	1000	500	19-38	0.7	98	71.5	60	BE2
C41701106KBE2501...	700	10	1000	500	16-32	0.6	98	71.5	60	BE2
C41901405KBE3501...	900	4.0	700	500	25-39	0.9	110	71.5	60	BE3
C41551276KBE3501...	550	27	1000	500	10-12	0.3	110	71.5	60	BE3
C41501336KBE3501...	500	33	1000	500	10	0.3	110	71.5	60	BE3
C41501376KBE3501...	500	37	1000	500	9	0.2	110	71.5	60	BE3

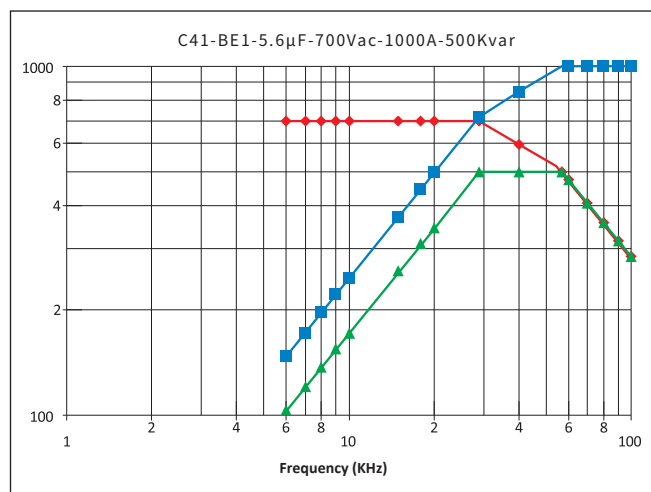
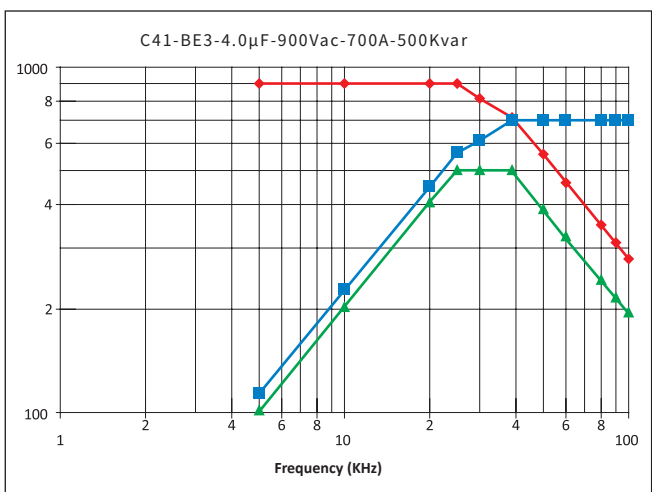
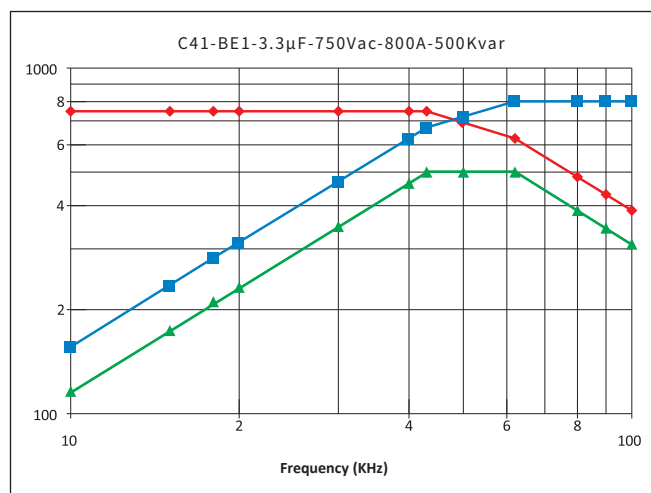
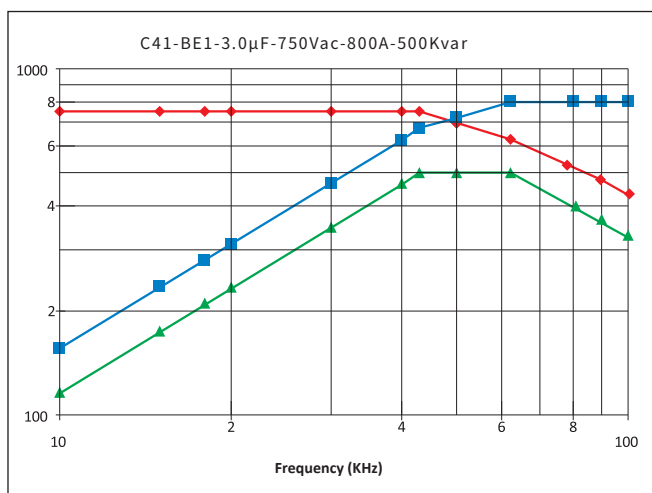
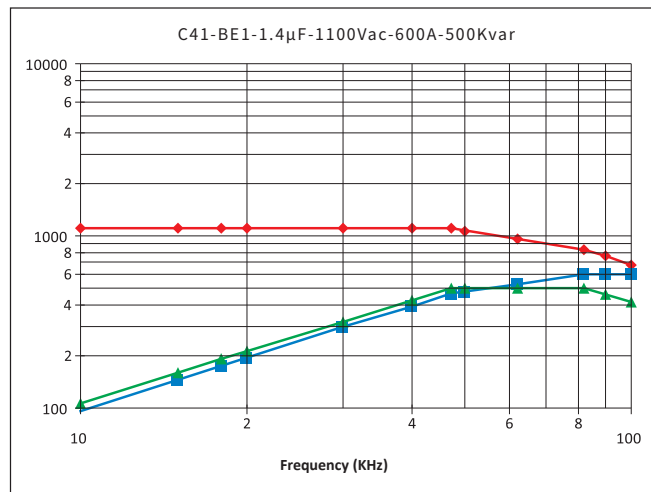
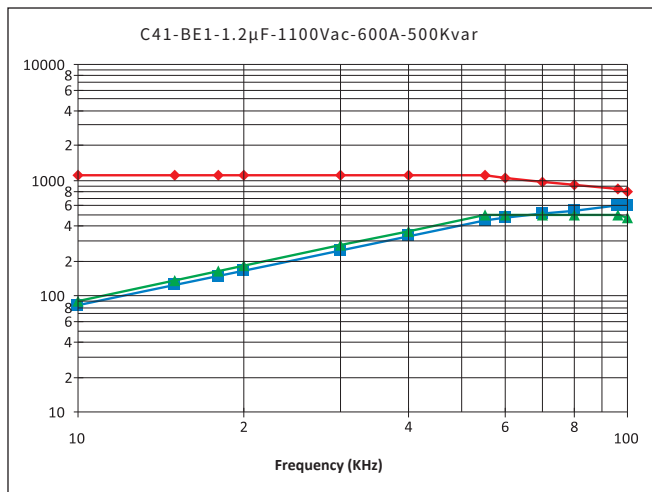
The above table / graphics are for reference only, subject to the actual product (unit: mm)

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Temperature Characteristics

—◆— Voltage —■— Current —▲— Power

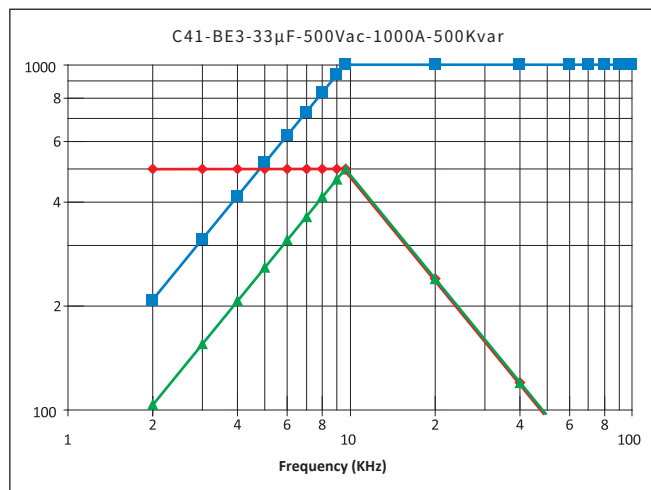
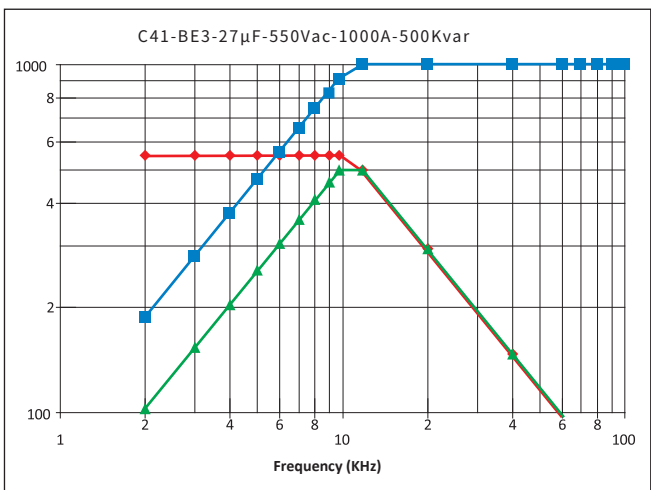
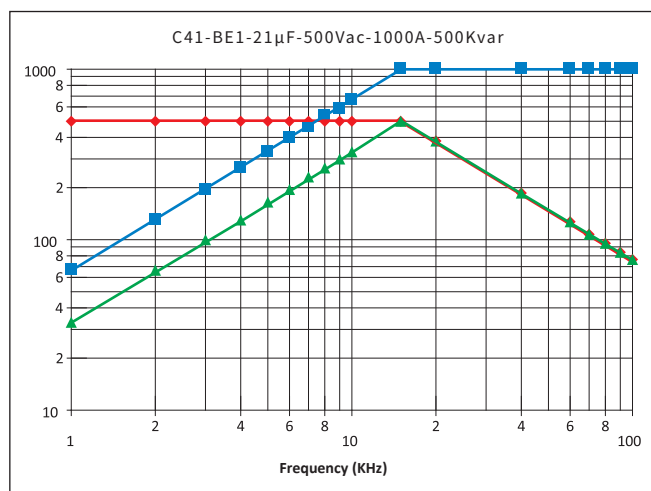
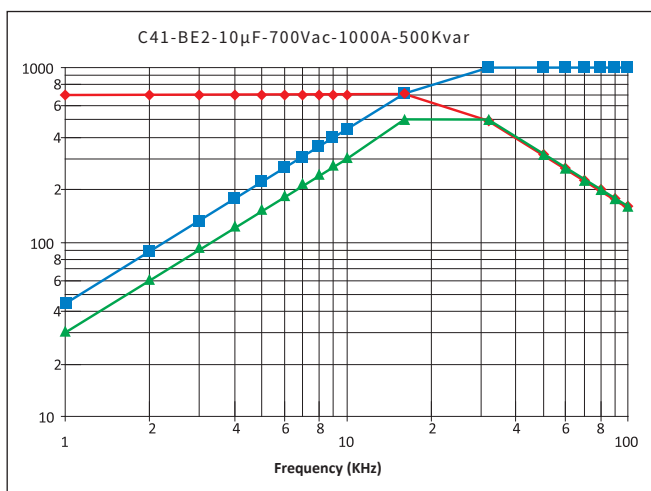
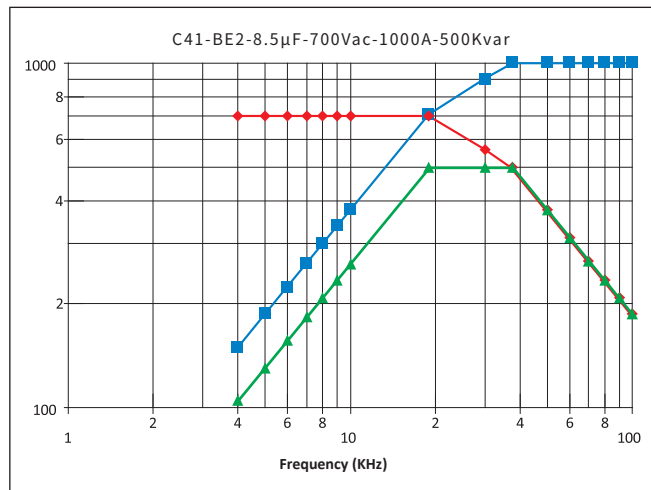
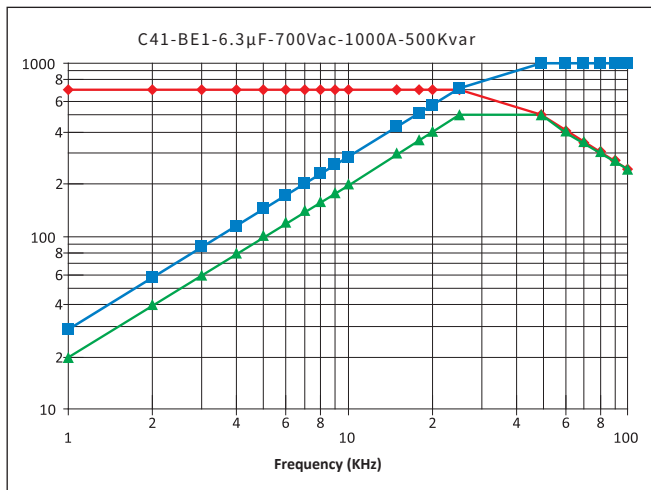


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