



Axial Lead Met Polyester (MKT) & Polypropylene (MKP) Capacitor

Features

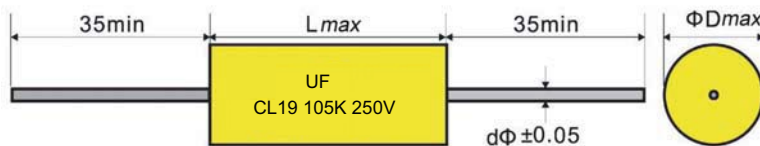
Yellow epoxy coating, axial lead MKT, MKP film capacitor

RoHS & Reach Compliant

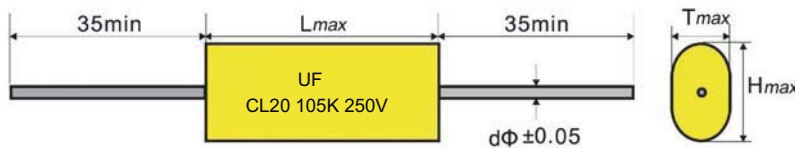
Cycloidal and Flat Oval Shape both available

Series Number

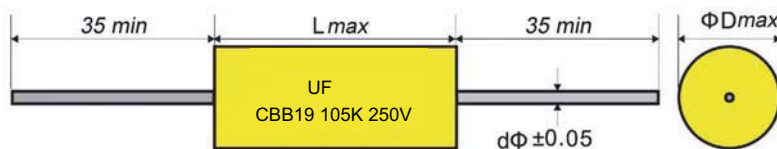
CL19 Axial Lead Metallized Polyester Capacitor, Cycloidal



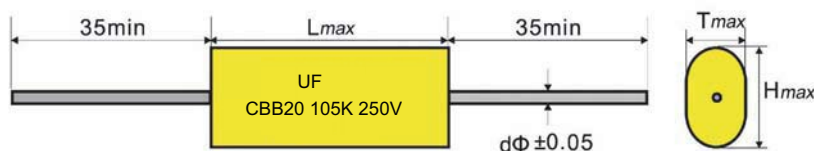
CL20 Axial Lead Metallized Polyester Capacitor, Flat Oval Shape



CBB19 Axial Lead Metallized Polypropylene Capacitor, Cycloidal



CBB20 Axial Lead Metallized Polypropylene Capacitor, Flat Oval Shape



How to order

Type	Material Code	Capacitance Code	Tolerance	Rated Voltage	Size Code	Package Code	Suffix Indicate Special Requirement
CL19 CL20 CBB19 CBB20	F: Plastic Film Cap For CL19 CL20 CBB19 CBB20	pF Code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) 105 = 1uF 104 = 0.1uF	J: +/-5% K: +/-10%	0100: 100VDC 0250: 250VDC 0400: 400VDC	Code 0000: axial lead	B: Bulk A: Ammo Taped	000: Indicating Standard If for cut leads or long leads: 000: mean standard LL 040: cut leads to 4mm 400:40mm long leads

CL19: AXIAL LEAD, METALLIZED POLYESTER FILM CAPACITORS - CYCLOIDAL

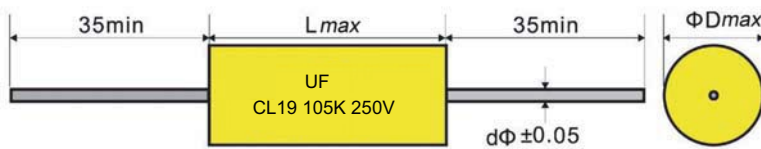
FEATURES

CL19 is constructed with metallized polyester film as medium and electricode, wrapped and sealed with flame-retardant plastic and epoxy resin. With high reliability, high temperature-resistance, small volume, large capacity and good self-healing property. Mainly used in instruments and the DC & AC circuit of the household equipment and the fractional frequency circuit of acoustics system.

SPECIFICATIONS

Operating Temperature	-40°C ~ +105°C	
Rated Voltage	100V, 250V, 400V, 630V.DC	
Withstand Voltage	1.6U _R 2s (1.5U _R 5s)	
Capacitance Range	0.033 ~ 68 μF	
Capacitance Tolerance	±5%, ±10%	
Insulation Resistance	C ≤ 0.33 μF	VR ≤ 100V (10V) ≥ 7500 MΩ VR > 100V ≥ 15000 MΩ
	C > 0.33 μF	VR ≤ 100V (10V) ≥ 2500 S VR > 100V ≥ 5000 S
Dissipation Factor	C < 1 μF	≤ 0.013 10KHz
	1 μF < C ≤ 10 μF	≤ 0.008 1KHz
	C > 10 μF	≤ 0.010 1KHz

DRAWING



STANDARD SIZE (mm)

VDC μF		100VDC			250VDC			400VDC			630VDC		
		L	D	d	L	D	d	L	D	d	L	D	d
333	0.033	--	--	--	--	--	--	--	--	--	15.5	7.0	0.6
473	0.047	--	--	--	--	--	--	20.0	6.0	0.6	20.5	7.5	0.6
683	0.068	--	--	--	--	--	--	20.0	6.5	0.6	20.5	8.5	0.8
104	0.1	15.0	6.5	0.6	15.0	6.5	0.6	20.0	7.5	0.6	20.5	8.0	0.6
224	0.22	15.0	6.5	0.6	15.0	6.5	0.6	20.0	9.5	0.8	25.0	11.5	0.8
334	0.33	15.0	8.0	0.6	20.0	7.5	0.6	20.5	9.5	0.8	26.0	9.5	0.8
474	0.47	20.0	7.0	0.6	20.0	8.5	0.8	26.0	9.0	0.8	31.0	14.0	0.8
684	0.68	20.0	7.5	0.6	20.0	10.0	0.8	26.0	10.5	0.8	32.0	11.5	0.8
105	1.0	20.0	9.0	0.8	25.0	10.0	0.8	31.0	14.0	0.8	32.0	14.5	0.8
225	2.2	25.0	11.0	0.8	31.0	12.0	0.8	37.5	14.5	0.8	37.5	17.5	0.8
335	3.3	25.0	14.0	0.8	31.0	14.5	0.8	37.5	17.5	0.8	47.5	19.0	0.8
475	4.7	31.0	13.5	0.8	31.0	17.5	0.8	37.5	20.0	1.0	47.5	22.0	1.0
565	5.6	31.0	15.0	0.8	31.0	19.5	0.8	47.0	17.0	0.8	57.5	21.0	1.0
685	6.8	31.0	16.0	0.8	46.0	16.0	0.8	57.5	18.5	0.8	57.5	23.0	1.0
825	8.2	31.0	17.5	0.8	46.0	17.5	0.8	57.5	20.0	1.0	57.5	25.0	1.0
106	10.0	31.0	19.0	0.8	46.0	19.5	0.8	57.5	22.5	1.0	57.5	27.5	1.0
156	15.0	46.0	18.0	0.8	46.0	24.0	1.0	57.5	26.5	1.0	67.5	30.0	1.0
226	22.0	46.0	22.0	1.0	46.0	29.0	1.0	57.5	31.5	1.0	--	--	--
336	33.0	56.0	23.5	1.0	56.0	30.0	1.0	--	--	--	--	--	--
476	47.0	56.0	29.0	1.0	58.0	37.0	1.0	--	--	--	--	--	--
686	68.0	58.0	33.0	1.0	61.0	41.0	1.0	--	--	--	--	--	--

CBB20: AXIAL LEAD, METALLIZED POLYPROPYLENE FILM CAPACITOR – FLAT OVAL SHAPE

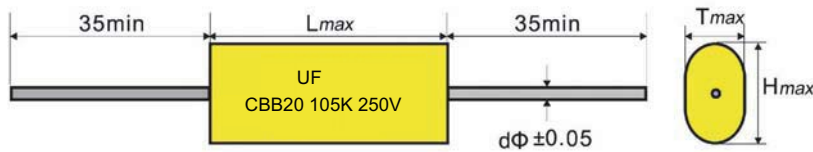
FEATURES

CBB20 is constructed with metallized polypropylene film as medium and electricode, wrapped and sealed with flame-retardant plastic and epoxy resin. With high reliability, high temperature-resistance, small volume, large capacity and good self-healing property. Mainly used in instruments and the DC & AC circuit of the household equipment and the fractional frequency circuit of acoustics system.

SPECIFICATIONS

Operating Temperature	-55°C ~ +100°C		
Rated Voltage	250V, 400V, 630V, 1000V, 1250V.DC		
Withstand Voltage	1.7U _R 2s (1.5U _R 5s)		
Capacitance Range	0.022 ~ 47 μF		
Capacitance Tolerance	±5%, ±10%		
Insulation Resistance	C ≤ 0.33 μF	≥ 50000MΩ	
	C > 0.33 μF	≥ 15000S	
Dissipation Factor	C ≤ 0.1 μF	≤ 0.0015	10KHz
	0.1 μF < C ≤ 1 μF	≤ 0.0020	10KHz
	1 μF < C ≤ 4.7 μF	≤ 0.0030	10KHz
	C > 4.7 μF	≤ 0.0015	1KHz

DRAWING



STANDARD SIZE (mm)																					
VDC uF	250VDC				400VDC				630VDC				1000VDC				1250VDC				
	L	T	H	d	L	T	H	d	L	T	H	d	L	T	H	d	L	T	H	d	
223	0.022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.5	7.5	10.5	0.6	
333	0.033	--	--	--	--	--	--	--	--	--	--	--	15.5	7.0	10	0.6	20.5	6.5	9.5	0.6	
473	0.047	--	--	--	--	--	--	--	--	--	--	--	15.5	8.5	12	0.8	20.5	7.5	12	0.6	
683	0.068	--	--	--	--	--	--	--	--	--	--	--	20.5	7.0	11.5	0.6	26	7.0	13	0.6	
104	0.1	15	5.0	8.0	0.6	20	7.0	10.5	0.6	25	6.5	13	0.6	26	7.0	11.5	0.6	26	8.5	14.5	0.8
224	0.22	20	5.0	9.0	0.6	15.5	6.5	10.5	0.6	15.5	12.0	16	0.8	26	10.0	16	0.8	32	10.5	18	0.8
334	0.33	15.5	7.0	10.5	0.6	15.5	8.0	12.5	0.6	20.5	10.5	15	0.8	32	10.0	17.5	0.8	37.5	11.5	20	0.8
474	0.47	15.5	8.5	12.5	0.8	20.5	7.0	11.5	0.6	20.5	13.0	17	0.8	37.5	10.5	19.5	0.8	47.5	10.5	21	0.8
684	0.68	20.5	6.8	12.0	0.6	20.5	9.0	13.0	0.8	26	12.0	18	0.8	47.5	10.0	20.5	0.8	57.5	11.5	23.5	0.8
105	1.0	20.5	8.5	13.5	0.8	26	9.0	13.0	0.8	26	15.0	20.5	1.0	57.5	10.5	23	0.8	67.5	12.5	25	1.0
225	2.2	31	11.0	17.5	0.8	32	11.5	16.0	0.8	32	18.5	26.5	1.0	67.5	15.5	27.5	1.0	67.5	20.0	32.5	1.0
335	3.3	32	11.5	17.5	0.8	32	13.5	19.5	0.8	32	23.0	32.5	1.0	67.5	19.5	31.5	1.0	67.5	20.0	32.5	1.0
475	4.7	31	16.5	22.5	1.0	37.5	15.0	22.0	1.0	37.5	24.0	35	1.0	67.5	24.0	36.5	1.0	--	--	--	--
565	5.6	37.5	13.0	20.5	1.0	47.5	14.5	21.0	0.8	47.5	21.0	34	1.0	--	--	--	--	--	--	--	--
685	6.8	47.5	11.0	20.5	0.8	47.5	15.0	23.0	1.0	57.5	20.5	33.5	1.0	--	--	--	--	--	--	--	--
825	8.2	47.5	12.5	22.0	1.0	57.5	14.0	22.0	1.0	57.5	23.0	35.5	1.0	--	--	--	--	--	--	--	--
106	10.0	47.5	15.0	23.5	1.0	57.5	14.5	24.5	1.0	67.5	23.0	35.5	1.0	--	--	--	--	--	--	--	--
156	15.0	57.5	14.5	26.0	1.0	67.5	16.0	27.0	1.0	--	--	--	--	--	--	--	--	--	--	--	--
226	22.0	57.5	18.5	29.5	1.0	67.5	19.0	32.5	1.0	--	--	--	--	--	--	--	--	--	--	--	--
306	30.0	67.5	19.0	32.0	1.0	67.5	23.5	36.0	1.0	--	--	--	--	--	--	--	--	--	--	--	--
336	33.0	67.5	20.0	33.5	1.0	67.5	24.5	37.5	1.0	--	--	--	--	--	--	--	--	--	--	--	--
476	47.0	67.5	25.0	38.0	1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--