



630V Axial Metalized Polypropylene Film Kits

Summary of 630V Axial Film Kits:

KIT #	Voltage	Tolerance	Era	Range	# of pF Values	# Caps per Values	# of Caps per Kit
Kit #1A	630V	10%	Pre&Post WWII	0.0005uF to 0.1uF	32	8	256
Kit #2A	630V	10%	Post WWII	0.001uF to 0.47uF	16	12	192
Kit #3A	630V	10%	Pre WWII	0.0005uF to 0.25uF	24	10	240
Kit #4A	630V	10%	Post WWII	0.001uF to 0.1uF	7	35	245
Kit #5A	630V	10%	Pre WWII	0.001uF to 0.1uF	7	35	245
Kit #6A	630V	10%	Post WWII	0.001uF to 0.22uF	14	5 to 25	200
Kit #7A	630V	10%	Pre WWII	0.0005uF to 0.25uF	20	5 to 25	250

630V Axial Film Kits Available

Kit #1A	Voltage	Tolerance	Era	Range	# of pF Values	# Caps per Values	# of Caps per Kit
	630V	10%	Pre&Post WWII	0.0005uF to 0.1uF	32	8	256
<p>8 each of following 32 values (pre & post WWII): 0.0005uF, 0.001uF, 0.0015uF, 0.002uF, 0.0022uF, 0.0025uF, 0.003uF, 0.0033uF, 0.004uF, 0.0047uF, 0.005uF, 0.006uF, 0.0068uF, 0.007uF, 0.008uF, 0.01uF, 0.015uF, 0.02uF, 0.022uF, 0.03uF, 0.033uF, 0.035uF, 0.04uF, 0.047uF, 0.05uF, 0.06uF, 0.068uF, 0.07uF, 0.075uF, 0.08uF, 0.09uF, 0.1uF = 256 capacitors Packaged 2 values per poly bag.</p>							

Kit #2A	Voltage	Tolerance	Era	Range	# of pF Values	# Caps per Values	# of Caps per Kit
	630V	10%	Post WWII	0.001uF to 0.47uF	16	12	192
<p>12 each of following 16 values (post WWII): 0.001uF, 0.0015uF, 0.0022uF, 0.0033uF, 0.0047uF, 0.0068uF, 0.01uF, 0.015uF, 0.022uF, 0.033uF, 0.047uF, 0.068uF, 0.1uF, 0.15uF, 0.22uF, 0.47uF = 192 capacitors Packaged 1 value per poly bag.</p>							

Kit #3A	Voltage	Tolerance	Era	Range	# of pF Values	# Caps per Values	# of Caps per Kit
	630V	10%	Pre WWII	0.0005uF to 0.25uF	24	10	240
<p>10 each of following 24 values (pre WWII): 0.0005uF, 0.001uF, 0.0015uF, 0.002uF, 0.003uF, 0.004uF, 0.005uF, 0.006uF, 0.007uF, 0.008uF, 0.01uF, 0.015uF, 0.02uF, 0.03uF, 0.04uF, 0.05uF, 0.06uF, 0.07uF, 0.08uF, 0.09uF, 0.1uF, 0.15uF, 0.2uF, 0.25uF = 240 capacitors Packaged 2 values per poly bag.</p>							

Kit #4A	Voltage	Tolerance	Era	Range	# of pF	# Caps per	# of Caps
					Values	Values	per Kit
	630V	10%	Post WWII	0.001uF to 0.1uF	7	35	245

35 each of the following 7 values ("most needed" post WWII sizes):
0.001uF, 0.0022uF, 0.0047uF, 0.01uF, 0.022uF, 0.047uF, 0.1uF = 245 capacitors
 Packaged 1 value per poly bag.

Kit #5A	Voltage	Tolerance	Era	Range	# of pF	# Caps per	# of Caps
					Values	Values	per Kit
	630V	10%	Pre WWII	0.001uF to 0.1uF	7	35	245

35 each of the following 7 values ("most needed" pre WWII sizes):
0.001uF, 0.002uF, 0.005uF, 0.01uF, 0.02uF, 0.05uF, 0.1uF = 245 capacitors
 Packaged 1 value per poly bag.

Kit #6A	Voltage	Tolerance	Era	Range	# of pF	# Caps per	# of Caps
					Values	Values	per Kit
	630V	10%	Post WWII	0.001uF to 0.22uF	14	5 to 25	200

5 to 25 each of the following 14 values "based of popularity" (Post WWII sizes) per below:
20 of 0.001uF, 10 of 0.0015uF, 15 of 0.0022uF, 10 of 0.0033uF, 20 of 0.0047uF, 10 of 0.0068uF
25 of 0.01uF, 10 of 0.015uF, 15 of 0.022uF, 10 of 0.033uF, 20 of 0.047uF, 10 of 0.068uF
20 of 0.1uF, 5 of 0.22uF = 200 capacitors
 Packaged 1 value per poly bag.

Kit #7A	Voltage	Tolerance	Era	Range	# of pF	# Caps per	# of Caps
					Values	Values	per Kit
	630V	10%	Pre WWII	0.0005uF to 0.25uF	20	5 to 25	250

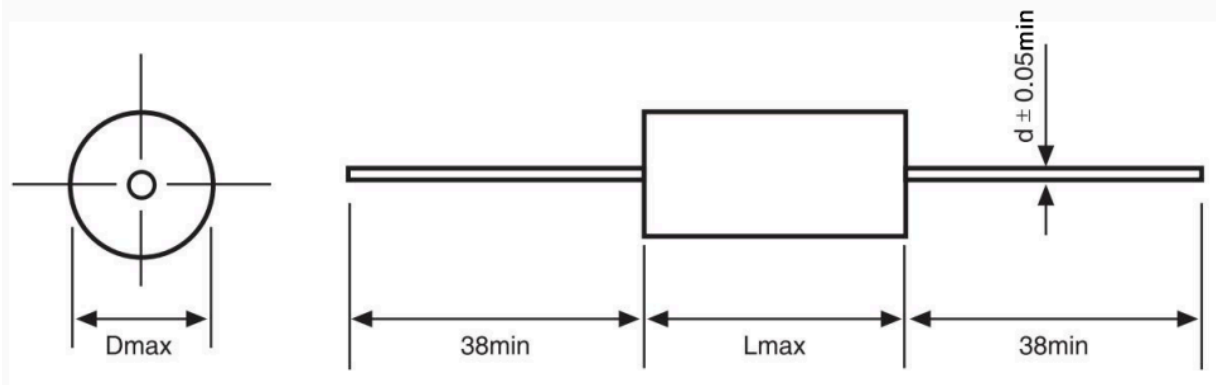
5 to 25 each of the following 20 values "based of popularity" (Pre WWII sizes) per below:
10 of 0.0005uF, 15 of 0.001uF, 10 of 0.0015uF, 10 of 0.002uF, 10 of 0.003uF, 10 of 0.004uF
20 of 0.005uF, 10 of 0.006uF, 10 of 0.008uF, 25 of 0.01uF, 10 of 0.015uF, 15 of 0.02uF
10 of 0.03uF, 10 of 0.04uF, 20 of 0.05uF, 10 of 0.06uF, 10 of 0.07uF, 10 of 0.08uF
20 of 0.1uF, 5 of 0.25uF = 250 capacitors
 Packaged 1 value per poly bag.

Metallized Polypropylene Film Capacitor–Axial Type•CBB20

Are non-inductively wound with metallized Polypropylene film as dielectric/electrode with copper-clad steel leas or flexible cord and outer wrapping of polyester end sealed with epoxy resin.

Outline Drawing:

(Dimensions of capacitors listed on Digikey at bottom of Datasheet.)



■ Structures

Material: Polypropylene film
 Electrode: Metallized Vacuum Evaporated Layer
 Encapsulation: Wrap up with PET tape and Encapsulated with Fire-proof Epoxide Resin
 Pin: cp Leads or PVC Electronic Tread

■ Using Area

In Heavy Current such as Filtering and Impulse, e.g. Power Amplifiers, Tube/Valve Radios and welder Machines etc
 Could be used in all the CBB21 compliant conditions.

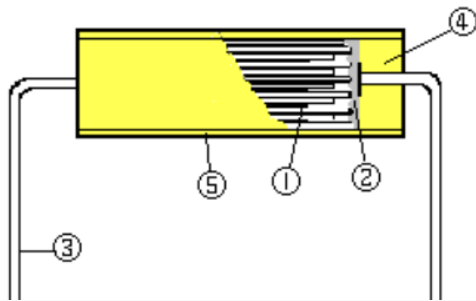
■ Features:

- Non-inductive construction and self-healing property
- Good soldering ability
- Small Size with good self-healing effect, Very low loss at high frequency could bear the high currents' impactive.

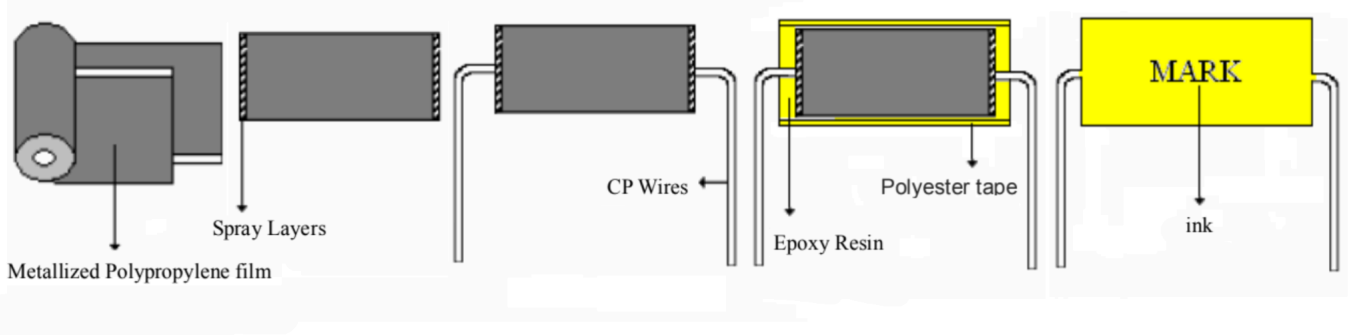
■ Typical Applications:

- Temperature compensation circuits.
- Timing, oscillator, snubbing circuits.
- Power factor correction and coupling capacitor in SMPS applications.
- Remote communication, data processing, industrial instruments, automatic control system of the equipment, welding machine, IGBT snubbing, frequency divider.

Structure Chart:



1. Metallized Polypropylene film
2. Spray Layers
3. CP Wires
4. Potting epoxy resin
5. PET - Polyester tape



Specification:

Reference Standards:	GB10190-88(IEC 60384-16)
Rated Voltage(UR):	100VDC; 250VDC; 400VDC; 630VDC; 1000VDC
Climate Category	40/085/21
Rated Temperature	85°C
Operation Temperature Range:	-40°C - +85°C
Capacitance Range-	0.001μF – 68μF
Capacitance Tolerance Range:	J(±5%); K(±10%); M(±20%)
Dielectric:	Polypropylene Film
Dissipation Factor Tanδ:	≤0.1% (1KHZ) (25°C ±5°C)
Insulation Resistance (Between Terminals)	100VDC, 1 Min 20°C CR≤0.33μF ≥30000MΩ CR >0.33μF ≥10000MΩ



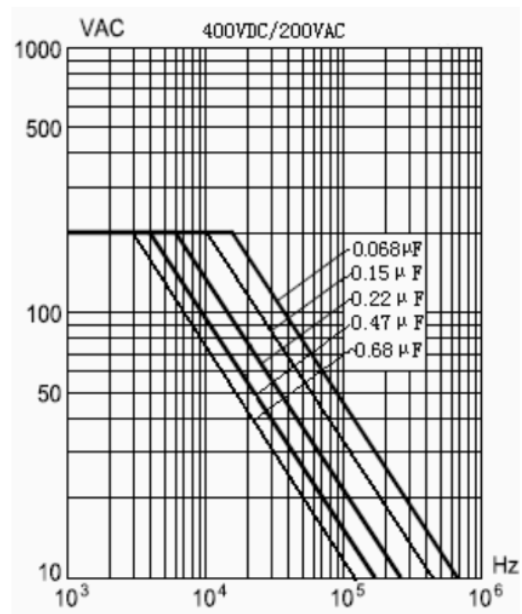
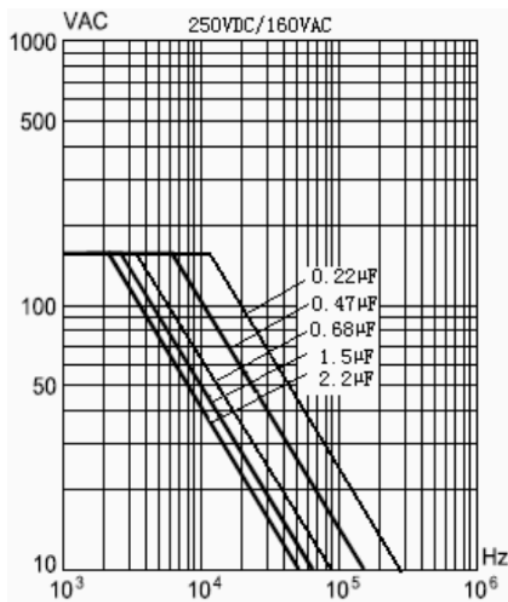
ELECTRONICS

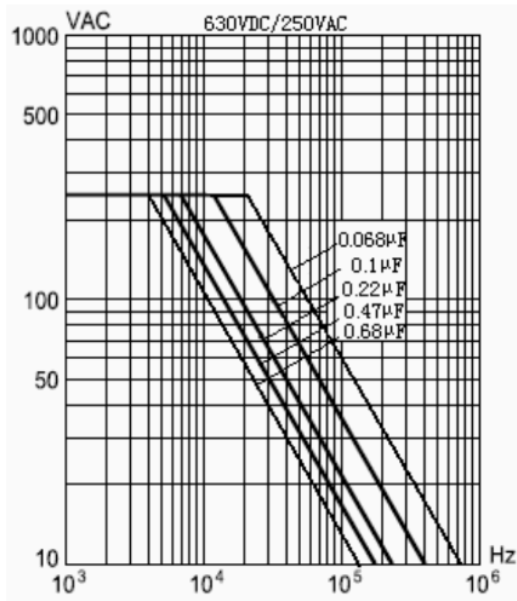
Withstand Voltage:	1.6UR(5S)
Life. Test Conditions:	85±2°C, 1.25UR, 1,000 Hours Capacitance Drift: ±15% Of the initial value Dissipation Factor ≤200% (1KHz)

■ The exchanging of AC and DC

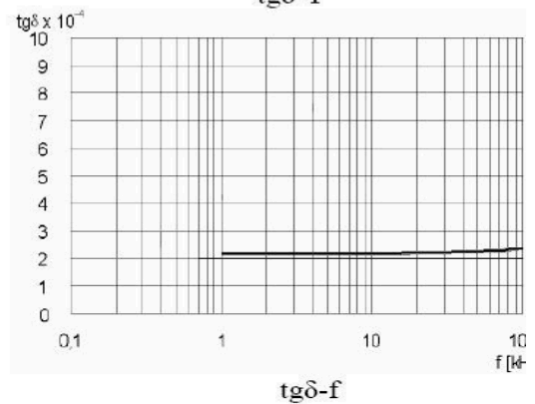
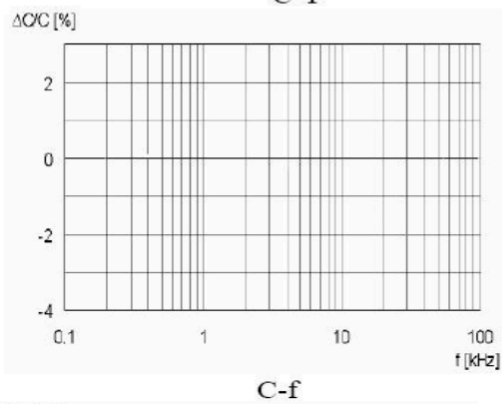
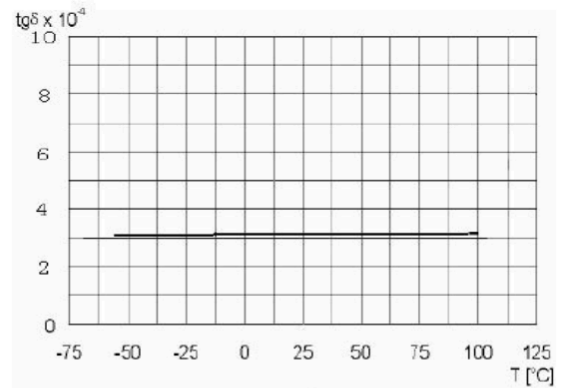
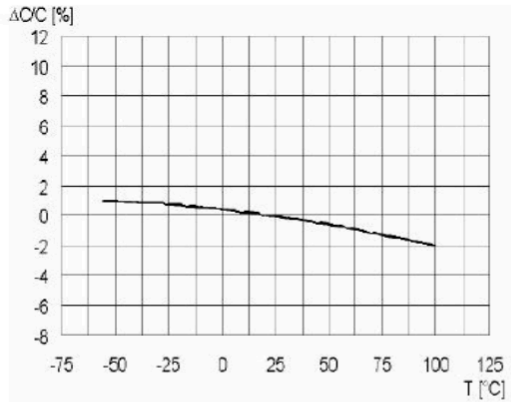
DC	100VDC	250VDC	400VDC	630VDC
AC	63VAC	160VAC	200VAC	250VAC

■ The Relationship of AC Voltage Proof and Frequency



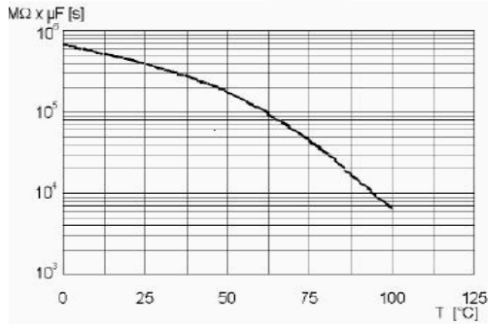


■ Polypropylene film capacitor characteristic curve:

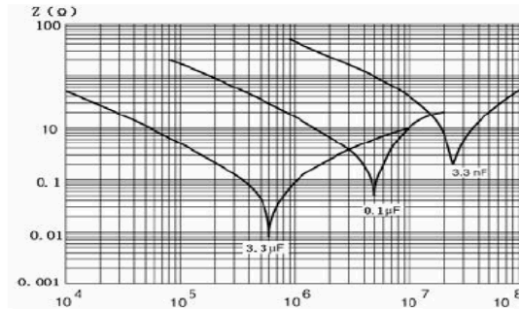




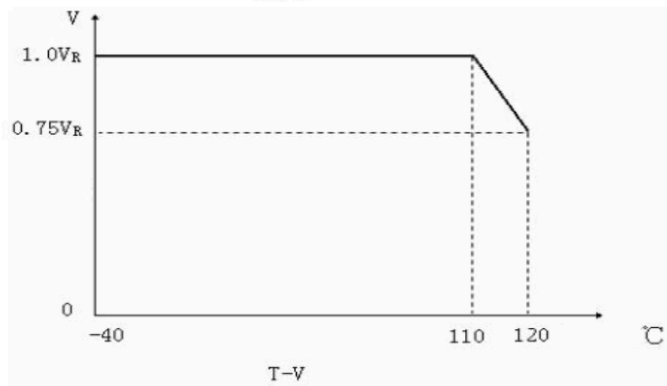
ELECTRONICS



R-T



Z-f



T-V

■ Dimension List (mm) Diagram

(Dimensions of capacitors listed on Digikey at bottom of Datasheet.)

Metallized Polypropylene Film Capacitor–Axial Type: CBB20								
The Shape		CBB20 Ellipse (MPA)			CBB20 Cylinder (MPT)			
Cap Code	Cap Value uF	Part No.	Dimensions^mmV			Part No.	Dimensions (mm)	
			W±1.0	T ±1.0	H±1.0		L±1.0	D±1.0
100VDC(60VAC)								
683	0.068				MPT683K(J)100V	13	6	



ELECTRONICS

104	0.1	MPA104K(J)100V	15	5	8	MPT104K(J)100V	13	6
154	0.15	MPA154K(J)100V	15	5	8	MPT154K(J)100V	16.5	7
224	0.22	MPA224K(J)100V	15	5	10	MPT224K(J)100V	16.5	7.5
334	0.33	MPA334K(J)100V	15	7	10	MPT334K(J)100V	16.5	8.5
474	0.47	MPA474K(J)100V	15	8	12	MPT474K(J)100V	16.5	9.5
684	0.68	MPA684K(J)100V	15	8	16	MPT684K(J)100V	20.5	9.5
105	1.0	MPA105K(J)100V	20	8	14	MPT105K(J)100V	20.5	11
155	1.5	MPA155K(J)100V	20	10	16	MPT155K(J)100V	28.0	11
225	2.2	MPA225K(J)100V	25	9	16	MPT225K(J)100V	28.0	12.5
335	3.3	MPA335K(J)100V	25	12	9	MPT335K(J)100V	28.0	14.5
475	4.7	MPA475K(J)100V	32	11	19	MPT475K(J)100V	33.0	16
685	6.8	MPA685K(J)100V	32	14	22	MPT685K(J)100V	33.0	18.5
106	10.0	MPA106K(J)100V	32	10	20	MPT106K(J)100V	33	21.5
156	15.0	MPA156K(J)100V	36	13	22			
186	18.0	MPA186K(J)100V	36	14	24			
206	20.0	MPA206K(J)100V	46	13	22			
226	22.0	MPA226K(J)100V	46	13	23			
256	25.0	MPA256K(J)100V	46	14	24			
306	30.0	MPA306K(J)100V	56	14	23			
336	33.0	MPA336K(J)100V	56	15	24			
356	35.0	MPA356K(J)100V	56	15	25			
406	40.0	MPA406K(J)100V	56	17	26			
456	45.0	MPA456K(J)100V	56	18	27			

606	60.0	MPA606K(J)100V	66	19	28			
686	68.0	MPA686K(J)100V	66	20	30			
250VDC(160VAC)								



ELECTRONICS

103	0.010	MPA103J(K)250V	15	5.5	9.5	MPT103J(K)250V	15	8.0
123	0.012	MPA123J(K)250V	15	6.0	10.0	MPT123J(K)250V	15	9.0
153	0.015	MPA153J(K)250V	15	6.0	10.0	MPT153J(K)250V	15	9.0
183	0.018	MPA183J(K)250V	15	6.5	10.5	MPT183J(K)250V	15	9.0
223	0.022	MPA223J(K)250V	15	5.5	9.5	MPT223J(K)250V	15	8.0
273	0.027	MPA273J(K)250V	15	6.0	10.0	MPT273J(K)250V	15	9.0
333	0.033	MPA333J(K)250V	15	5.5	9.5	MPT333J(K)250V	15	8.0
393	0.039	MPA393J(K)250V	15	6.0	10.0	MPT393J(K)250V	15	9.0
473	0.047	MPA473J(K)250V	15	5.0	9.0	MPT473J(K)250V	15	7.8
563	0.056	MPA563J(K)250V	15	6.0	10.0	MPT563J(K)250V	15	8.3
683	0.068	MPA683J(K)250V	15	4.5	8.5	MPT683J(K)250V	15	7.0
823	0.082	MPA823J(K)250V	15	5.0	10.0	MPT823J(K)250V	15	8.0
104	0.10	MPA104J(K)250VA	15	5.0	10.0	MPT104J(K)250VA	15	8.0
104	0.10	MPA104J(K)250VB	20	5.0	10.0	MPT104J(K)250B	20	8.0
124	0.12	MPA124J(K)250VA	15	6.5	10.5	MPT124J(K)250VA	15	9.0
124	0.12	MPA124J(K)250VB	20	5.5	10.5	MPT124J(K)250B	20	9.0
154	0.15	MPA154J(K)250V	15	6.5	11.5	MPT154J(K)250V	15	9.5
154	0.15	MPA154J(K)250VA	20	4.5	9.0	MPT154J(K)250VA	20	8.0
184	0.18	MPA184J(K)250VB	15	6.0	11.0	MPT184J(K)250B	15	8.0
184	0.18	MPA184J(K)250V	20	5.0	10.0	MPT184J(K)250V	20	8.0
224	0.22	MPA224J(K)250VA	15	7.0	11.5	MPT224J(K)250VA	15	10.0
224	0.22	MPA224J(K)250VB	20	4.5	9.0	MPT224J(K)250B	20	8.0
274	0.27	MPA274J(K)250VA	15	7.5	12.5	MPT274J(K)250VA	15	10.0
274	0.27	MPA274J(K)250VB	20	5.0	10.0	MPT274J(K)250B	20	8.0
334	0.33	MPA334J(K)250VA	15	6.5	11.5	MPT334J(K)250VA	15	10.0
334	0.33	MPA334J(K)250VB	20	6.0	10.5	MPT334J(K)250B	20	8.5
394	0.39	MPA394J(K)250VA	15	7.5	12.0	MPT394J(K)250VA	15	10.0
394	0.39	MPA394J(K)250VB	20	6.5	11.0	MPT394J(K)250B	20	9.0
474	0.47	MPA474J(K)250VA	15	8.0	13.0	MPT474J(K)250VA	15	10.0



ELECTRONICS

474	0.47	MPA474J(K)250VB	20	7.0	12.0	MPT474J(K)250B	20	10.0
564	0.56	MPA564J(K)250VA	20	6.0	11.0	MPT564J(K)250VA	20	8.8
564	0.56	MPA564J(K)250VB	20	8.0	13.0	MPT564J(K)250B	20	11.0
684	0.68	MPA684J(K)250VA	20	7.0	11.5	MPT684J(K)250VA	20	10.0
684	0.68	MPA684J(K)250VB	25	7.0	12.0	MPT684J(K)250B	25	10.0
824	0.82	MPA824J(K)250VA	20	7.0	11.5	MPT824J(K)250VA	20	10.4
824	0.82	MPA824J(K)250VB	25	8.0	13.0	MPT824J(K)250B	25	9.0
105	1.0	MPA105J(K)250VA	20	8.0	14.0	MPT105J(K)250VA	20	11.5
105	1.0	MPA105J(K)250VB	25	8.0	14.5	MPT105J(K)250B	25	12.0

125	1.2	MPA125J(K)250VB	25	9.0	15.5	MPT125J(K)250B	25	13.0
155	1.5	MPA155J(K)250VA	25	8.0	14.0	MPT155J(K)250VA	25	11.6
155	1.5	MPA155J(K)250VB	25	10.5	17.0	MPT155J(K)250B	25	14.0
185	1.8	MPA185J(K)250V	25	11.5	19.0	MPT185J(K)250V	25	16.0
225	2.2	MPA225J(K)250VA	25	12.5	20.5	MPT225J(K)250VA	25	17.0
225	2.2	MPA225J(K)250VB	32	10.0	18.0	MPT225J(K)250B	32	15.0
275	2.7	MPA275J(K)250VA	25	14.0	22.0	MPT275J(K)250VA	25	19.0
275	2.7	MPA275J(K)250VB	32	11.0	19.0	MPT275J(K)250B	32	15.8
305	3.0	MPA305J(K)250VA	32	12.0	20.0	MPT305J(K)250VA	32	17.0
305	3.0	MPA305J(K)250VB	35	11.0	19.0	MPT305J(K)250B	35	16.0
335	3.5	MPA335J(K)250VA	31	8.0	14.3			
335	3.3	MPA335J(K)250VB	32	12.5	20.5	MPT335J(K)250VA	32	17.3
335	3.3	MPA335J(K)250VC	35	14.5	19.6	MPT335J(K)250B	35	16.0
395	3.9	MPA395J(K)250VA	32	14.0	22.0	MPT395J(K)250VA	32	19.0
395	3.9	MPA395J(K)250VB	35	12.5	20.5	MPT395J(K)250B	35	18.0
475	4.7	MPA475J(K)250VA	31	10.0	16.1			
475	4.7	MPA475J(K)250VB	32	15.5	24.0	MPT475J(K)250VA	32	21.0



ELECTRONICS

475	4.7	MPA475J(K)250VC	35	14.0	22.0	MPT475J(K)250B	35	19.0
565	5.6	MPA565J(K)250VA	32	17.5	25.0	MPT565J(K)250VA	32	22.2
565	5.6	MPA565J(K)250VB	35	16.0	24.0	MPT565J(K)250B	35	21.0
685	6.8	MPA685J(K)250V	35	18.0	25.5	MPT685J(K)250V	35	23.0
825	8.2	MPA825J(K)250VA	35	20.0	28.0	MPT825J(K)250VA	35	25.0
825	8.2	MPA825J(K)250VB	45	16.0	24.0	MPT825J(K)250B	45	21.0
106	10	MPA106J(K)250VA	35	22.0	30.0	MPT106J(K)250VA	35	27.0
106	10	MPA106J(K)250VB	45	19.0	26.0	MPT106J(K)250B	45	23.0
126	12	MPA126J(K)250V	45	20.5	28.5	MPT126J(K)250V	45	25.0
156	15	MPA156J(K)250V	45	23.0	31.0	MPT156J(K)250V	45	28.0
186	18					MPT186J(K)250VA	46	23.0
186	18	MPA186J(K)250VB	45	25.0	34.5	MPT186J(K)250B	45	31.0
206	20					MPT206J(K)250VA	47	20.5
206	20	MPA206J(K)250VA	45	26.5	36.0	MPT206J(K)250B	45	32.0
226	22	MPA226J(K)250VA	45	19.0	28.0	MPT226J(K)250VA	46	25.0
226	22	MPA226J(K)250VB	47	16.8	24.5	MPT226J(K)250B	45	34.0
276	27					MPT276J(K)250VA	46	27.5
276	27	MPA276J(K)250VB	45	31.0	41.0	MPT276J(K)250B	45	38.0
306	30	MPA306J(K)250VA	45	34.0	43.0	MPT306J(K)250VA	45	40.0
306	30	MPA306J(K)250VB	58	39.0	48.0	MPT306J(K)250B	45	42.0
336	33					MPT336J(K)250VA	46	30
336	33	MPA336J(K)250VB	45	36.0	45.0	MPT336J(K)250B	45	42.0
400VDC(200VAC)								
103	0.01	MPA103J(K)400V	15	5.5	9.5	MPT103J(K)400V	15	8.0

153	0.015	MPA153J(K)400V	15	6.0	10.0	MPT153J(K)400V	15	9.0
183	0.018	MPA183J(K)400V	15	6.5	10.5	MPT183J(K)400V	15	9.0



ELECTRONICS

223	0.022	MPA223J(K)400V	15	5.5	9.5	MPT223J(K)400V	15	8.0
273	0.027	MPA273J(K)400V	15	6.0	10.0	MPT273J(K)400V	15	9.0
333	0.033	MPA333J(K)400V	15	5.5	9.5	MPT333J(K)400V	15	8.0
393	0.039	MPA393J(K)400V	15	6.0	10.0	MPT393J(K)400V	15	9.0
473	0.047	MPA473J(K)400V	15	5.0	9.0	MPT473J(K)400V	15	7.8
563	0.056	MPA563J(K)400V	15	5.5	10.0	MPT563J(K)400V	15	8.3
683	0.068	MPA683J(K)400V	15	4.0	8.5	MPT683J(K)400V	15	7.0
823	0.082	MPA823J(K)400V	15	5.0	9.0	MPT823J(K)400V	15	8.0
104	0.1	MPA104J(K)400VA	15	5.0	10.0	MPT104J(K)400VA	15	8.0
104	0.1	MPA104J(K)400VB	20	5.5	10.0	MPT104J(K)400B	20	8.0
124	0.12	MPA124J(K)400VA	15	6.0	10.5	MPT124J(K)400VA	15	9.0
124	0.12	MPA124J(K)400VB	20	6.0	11.0	MPT124J(K)400B	20	9.0
154	0.15	MPA154J(K)400VA	15	6.5	11.5	MPT154J(K)400VA	15	9.5
154	0.15	MPA154J(K)400VB	20	4.5	9.0	MPT154J(K)400B	20	8.0
184	0.18	MPA184J(K)400VA	15	6.0	11.0	MPT184J(K)400VA	15	8.0
184	0.18	MPA184J(K)400VB	20	5.0	10.0	MPT184J(K)400B	20	8.0
224	0.22	MPA224J(K)400VA	15	6.5	11.5	MPT224J(K)400VA	15	10.0
224	0.22	MPA224J(K)400VB	20	4.5	9.0	MPT224J(K)400B	20	8.0
274	0.27	MPA274J(K)400VA	15	7.5	12.5	MPT274J(K)400VA	15	10.0
274	0.27	MPA274J(K)400VB	20	5.0	10.0	MPT274J(K)400B	20	8.0
334	0.33	MPA334J(K)400VA	15	6.5	11.5	MPT334J(K)400VA	15	10.0
334	0.33	MPA334J(K)400VB	20	6.0	10.5	MPT334J(K)400B	20	8.5
394	0.39	MPA394J(K)400V	20	6.0	11.0	MPT394J(K)400V	20	9.0
474	0.47	MPA474J(K)400V	20	7.0	12.0	MPT474J(K)400V	20	10.0
564	0.56	MPA564J(K)400V	20	7.0	13.5	MPT564J(K)400V	20	11.0
684	0.68	MPA684J(K)400VA	20	8.0	14.5	MPT684J(K)400VA	20	12.0
684	0.68	MPA684J(K)400VB	25	7.0	12.0	MPT684J(K)400B	25	10.0
824	0.82	MPA824J(K)400V	25	7.0	13.5	MPT824J(K)400V	25	9.0
105	1.0	MPA105J(K)400V	25	8.0	14.5	MPT105J(K)400VA	25	12.0



ELECTRONICS

105	1.0					MPT105J(K)400B	32	17
125	1.2	MPA125J(K)400V	25	9.0	15.5	MPT125J(K)400V	25	13.0
155	1.5	MPA155J(K)400V	25	10.5	17.0	MPT155J(K)400V	25	14.0
185	1.8	MPA185J(K)400V	25	11.0	19.0	MPT185J(K)400V	25	16.0
225	2.2	MPA225J(K)400VA	25	12.5	20.5	MPT225J(K)400VA	25	17.0
225	2.2	MPA225J(K)400VB	32	10.0	18.0	MPT225J(K)400B	32	15.0
275	2.7	MPA275J(K)400VA	25	14.0	22.0	MPT275J(K)400VA	25	19.0
275	2.7	MPA275J(K)400VB	32	11.0	19.0	MPT275J(K)400B	32	15.8
305	3.0	MPA305J(K)400VA	32	12.0	20.0	MPT305J(K)400VA	32	17.0
305	3.0	MPA305J(K)400VB	35	11.0	19.0	MPT305J(K)400B	35	16.0

335	3.3	MPA335J(K)400VB	35	13.5	20.0	MPT335J(K)400B	35	16.0
395	3.9	MPA395J(K)400VA	32	14.0	22.0	MPT395J(K)400VA	32	19.0
395	3.9	MPA395J(K)400VB	35	12.5	20.5	MPT395J(K)400B	35	18.0
475	4.7	MPA475J(K)400VA	32	16.0	24.0	MPT475J(K)400VA	32	21.0
475	4.7	MPA475J(K)400VB	35	14.0	22.0	MPT475J(K)400B	35	19.0
565	5.6	MPA565J(K)400VA	32	17.5	25.0	MPT565J(K)400VA	32	22.2
565	5.6	MPA565J(K)400VB	35	15.5	23.5	MPT565J(K)400B	35	21.0
685	6.8	MPA685J(K)400V	35	17.5	25.5	MPT685J(K)400V	35	23.0
825	8.2	MPA825J(K)400VA	35	20.0	28.0	MPT825J(K)400VA	35	25.0
825	8.2	MPA825J(K)400VB	45	16.0	24.0	MPT825J(K)400B	45	21.0
106	10	MPA106J(K)400VA	35	22.0	30.0	MPT106J(K)400VA	35	27.0
106	10	MPA106J(K)400VB	45	19.0	26.0	MPT106J(K)400B	45	23.0
126	12	MPA126J(K)400V	45	20.5	29.0	MPT126J(K)400V	45	25.0
156	15	MPA156J(K)400V	45	23.0	31.0	MPT156J(K)400V	45	28.0
186	18	MPA186J(K)400V	45	25.0	34.5	MPT186J(K)400V	45	31.0
206	20	MPA206J(K)400V	45	27.0	36.0	MPT206J(K)400V	45	32.0



ELECTRONICS

226	22	MPA226J(K)400V	45	28.0	38.0	MPT226J(K)400V	45	34.0
276	27	MPA276J(K)400V	45	32.0	41.0	MPT276J(K)400V	45	38.0
306	30	MPA306J(K)400VA	45	34.0	43.0	MPT306J(K)400VA	45	40.0
306	30	MPA306J(K)400VB	58	39.0	48.0	MPT306J(K)400B	58	45
630VDC(220VAC)								
102	0.001					MPT102J(K)630V	15	8.0
103	0.01	MPA103J(K)630V	15	5.5	9.5	MPT103J(K)630V	15	8.0
123	0.012	MPA123J(K)630V	15	6.0	10.0	MPT123J(K)630V	15	8.0
153	0.015	MPA153J(K)630V	15	6.0	10.0	MPT153J(K)630V	15	8.0
183	0.018	MPA183J(K)630V	15	6.5	10.5	MPT183J(K)630V	15	8.0
203	0.02					MPT203J(K)630V	15	8.0
223	0.022	MPA223J(K)630V	15	5.0	9.5	MPT223J(K)630V	15	8.0
273	0.027	MPA273J(K)630V	15	6.0	10.0	MPT273J(K)630V	15	8.0
303	0.03					MPT303J(K)630V	15	8.0
333	0.033	MPA333J(K)630V	15	5.5	9.5	MPT333J(K)630V	15	8.0
393	0.039	MPA393J(K)630V	15	6.0	10.0	MPT393J(K)630V	15	8.0
473	0.047	MPA473J(K)630V	15	5.0	9.0	MPT473J(K)630V	15	8.3
503	0.05					MPT503J(K)630V	15	8.3
563	0.056	MPA563J(K)630V	15	6.0	10.0	MPT563J(K)630V	15	8.3
683	0.068	MPA683J(K)630VA	15	6.0	10.0	MPT683J(K)630VA	15	9.0
683	0.068	MPA683J(K)630VB	20	5.0	9.0	MPT683J(K)630B	20	9.0
823	0.082	MPA823J(K)630VA	15	7.0	11.0	MPT823J(K)630VA	15	10.0
823	0.082	MPA823J(K)630VB	20	5.0	9.0	MPT823J(K)630B	20	10.0
104	0.1	MPA104J(K)630VA	15	6.5	11.0	MPT104J(K)630VA	15	10.0
104	0.1	MPA104J(K)630VB	20	5.0	10.0	MPT104J(K)630B	20	10.0

124	0.12	MPA124J(K)630VB	20	6.0	11.0	MPT124J(K)630B	20	8.8
-----	------	-----------------	----	-----	------	----------------	----	-----



ELECTRONICS

154	0.15	MPA154J(K)630VA	15	8.0	13.0	MPT154J(K)630VA	15	11.0
154	0.15	MPA154J(K)630VB	20	7.0	11.5	MPT154J(K)630B	20	9.7
184	0.18	MPA184J(K)630V	20	6.5	11.0	MPT184J(K)630V	20	10.0
224	0.22	MPA224J(K)630V	20	7.0	12.0	MPT224J(K)630V	20	10.0
274	0.27	MPA274J(K)630V	20	8.0	13.0	MPT274J(K)630V	20	11.0
334	0.33	MPA334J(K)630V	20	9.0	15.0	MPT334J(K)630V	20	12.0
394	0.39	MPA394J(K)630VA	20	9.5	16.0	MPT394J(K)630VA	20	13.0
394	0.39	MPA394J(K)630VB	25	8.0	18.0	MPT394J(K)630B	25	12.0
474	0.47	MPA474J(K)630VA	20	11.0	17.0	MPT474J(K)630VA	20	15.0
474	0.47	MPA474J(K)630VB	25	9.0	16.0	MPT474J(K)630B	25	13.0
564	0.56	MPA564J(K)630VA	20	11.0	19.0	MPT564J(K)630VA	20	16.0
564	0.56	MPA564J(K)630VB	25	10.0	17.0	MPT564J(K)630B	25	14.0
684	0.68	MPA684J(K)630VA	25	11.0	19.0	MPT684J(K)630VA	25	15.3
684	0.68	MPA684J(K)630VB	32	9.5	16.0	MPT684J(K)630B	32	13.2
824	0.82	MPA824J(K)630VA	25	12.0	20.0	MPT824J(K)630VA	25	16.9
824	0.82	MPA824J(K)630VB	32	11.0	17.0	MPT824J(K)630B	32	14.3
105	1.0	MPA105J(K)630VA	25	15.4	21.0	MPT105J(K)630VA	25	18.0
105	1.0	MPA105J(K)630VB	32	11.0	19.0	MPT105J(K)630B	32	15.9
125	1.2	MPA125J(K)630V	32	12.5	32.0	MPT125J(K)630V	32	17.3
155	1.5	MPA155J(K)630V	32	14.5	22.0	MPT155J(K)630V	32	19.1
185	1.8	MPA185J(K)630V	32	15.5	24.0	MPT185J(K)630V	32	20.8
225	2.2	MPA225J(K)630VA	32	17.5	26.0	MPT225J(K)630VA	32	22.9
225	2.2	MPA225J(K)630VB	35	16.0	24.0	MPT225J(K)630B	35	21.0
275	2.7	MPA275J(K)630V	35	18.5	26.5	MPT275J(K)630V	35	23.0
335	3.3	MPA335J(K)630V	35	21.0	29.0	MPT335J(K)630V	35	26.0
395	3.9	MPA395J(K)630V	35	23.0	31.0	MPT395J(K)630V	35	28.0
475	4.7	MPA475J(K)630V	45	21.0	29.0	MPT475J(K)630V	50	26.0
565	5.6	MPA565J(K)630V	45	23.0	31.0	MPT565J(K)630V	50	28.0
685	6.8	MPA685J(K)630V	45	25.0	35.0	MPT685J(K)630V	50	31.0



ELECTRONICS

825	8.2	MPA825J(K)630V	45	28.0	38.0	MPT825J(K)630V	50	34.0
106	10	MPA106J(K)630V	57	27.0	36.5	MPT106J(K)630V	57	33.0
126	12	MPA126J(K)630V	57	30.0	40.0	MPT126J(K)630V	57	36.0
156	15	MPA156J(K)630V	57	34.0	44.0	MPT156J(K)630V	57	40.0

RELEVANT FILM CAPACITORS MEET STANDARDS



Security authorization of greatwall



Canadian Standards Association



Underwriters Laboratories insurance



Danmarks Elektriske Materielkontrol



Elektriska Inspektoratet



The Association of German Electrical Engineers



Norges Elektriske Materielkontrol



Svenska Eledtridka Materielkontrol



Eidgenossisches Starksrominspektorat

Actual Dimensions of CBB20 MPT Film Capacitors

Listed on Digikey

(Authorized SR Electronics Capacitor Dealer)

Mfg. Part #	Part # on Capacitor	Volts DC	uF Size	Tolerance	Body Length(mm)	Body Diameter(mm)	Lead Length(mm)	Lead Diameter(mm)
MPT501J(K)630V	501K 630V	630 Volts	0.0005	10%	15	7.5	46	0.6
MPT102J(K)630V	102K 630V	630 Volts	0.001	10%	15.5	8.0	46	0.6
MPT152J(K)630V	152K 630V	630 Volts	0.0015	10%	16.0	8.5	46	0.6
MPT202J(K)630V	202K 630V	630 Volts	0.002	10%	15.5	8.0	46	0.6
MPT222J(K)630V	222K 630V	630 Volts	0.0022	10%	15.0	8.5	46	0.6
MPT252J(K)630V	252K 630V	630 Volts	0.0025	10%	15.0	8.5	48	0.6
MPT302J(K)630V	302K 630V	630 Volts	0.003	10%	15.5	9.0	46	0.6
MPT332J(K)630V	332K 630V	630 Volts	0.0033	10%	15.5	9.0	46	0.6
MPT352J(K)630V	352K 630V	630 Volts	0.0035	10%	15.5	9.0	48	0.6
MPT402J(K)630V	402K 630V	630 Volts	0.004	10%	15.5	8.5	46	0.6
MPT472J(K)630V	472K 630V	630 Volts	0.0047	10%	15.5	8.5	46	0.6
MPT502J(K)630V	502K 630V	630 Volts	0.005	10%	15.0	8.0	46	0.6
MPT602J(K)630V	602K 630V	630 Volts	0.006	10%	15.5	8.5	46	0.6
MPT682J(K)630V	682K 630V	630 Volts	0.0068	10%	15.5	9.0	46	0.6
MPT702J(K)630V	702K 630V	630 Volts	0.007	10%	15.0	8.5	46	0.6
MPT802J(K)630V	802K 630V	630 Volts	0.008	10%	16.0	8.5	46	0.6
MPT103J(K)630V	103K 630V	630 Volts	0.01	10%	15.5	8.5	46	0.6
MPT153J(K)630V	153K 630V	630 Volts	0.015	10%	15.5	8.5	46	0.6
MPT203J(K)630V	203K 630V	630 Volts	0.02	10%	16.0	8.5	46	0.6
MPT223J(K)630V	223K 630V	630 Volts	0.022	10%	15.5	9.0	46	0.6
MPT253J(K)630V	253K 630V	630 Volts	0.025	10%	15.5	8.5	46	0.6
MPT303J(K)630V	303K 630V	630 Volts	0.03	10%	15.5	9.0	46	0.6
MPT333J(K)630V	333K 630V	630 Volts	0.033	10%	15.5	9.5	46	0.6
MPT353J(K)630V	353K 630V	630 Volts	0.035	10%	17.0	8.0	46	0.6
MPT403J(K)630V	403K 630V	630 Volts	0.04	10%	15.5	8.5	46	0.6
MPT473J(K)630V	473K 630V	630 Volts	0.047	10%	15.5	9.0	46	0.6
MPT503J(K)630V	503K 630V	630 Volts	0.05	10%	15.5	9.0	46	0.7
MPT603J(K)630V	603K 630V	630 Volts	0.06	10%	15.5	8.5	46	0.7
MPT683J(K)630V	683K 630V	630 Volts	0.068	10%	15.5	8.5	46	0.7
MPT703J(K)630V	703K 630V	630 Volts	0.07	10%	15.5	8.0	46	0.7
MPT753J(K)630V	753K 630V	630 Volts	0.075	10%	15.5	8.5	46	0.7
MPT803J(K)630V	803K 630V	630 Volts	0.08	10%	15.5	8.5	46	0.7
MPT903J(K)630V	903K 630V	630 Volts	0.09	10%	15.5	9.0	46	0.7
MPT104J(K)630V	104K 630V	630 Volts	0.1	10%	21.5	9.0	46	0.8
MPT154J(K)630V	154K 630V	630 Volts	0.15	10%	20.5	9.0	46	0.8
MPT204J(K)630V	204K 630V	630 Volts	0.2	10%	21.0	9.0	46	0.8
MPT224J(K)630V	224K 630V	630 Volts	0.22	10%	21.0	9.5	46	0.8
MPT254J(K)630V	254K 630V	630 Volts	0.25	10%	21.0	10.0	46	0.8
MPT304J(K)630V	304K 630V	630 Volts	0.3	10%	21.0	9.5	48	0.8
MPT474J(K)630V	474K 630V	630 Volts	0.47	10%	21.5	13.0	46	0.8
MPT684J(K)630V	684K 630V	630 Volts	0.68	10%	22.0	13.0	46	0.8
MPT105J(K)630V	105K 630V	630 Volts	1.0	10%	25.0	14.5	46	0.8
MPT205J(K)630V	205K 630V	630 Volts	2.0	10%	32.0	13.5	48	0.8

Actual Dimensions of CBB20 MPT Film Capacitors

Listed on Digikey

				2% Precision				
MPT103J(G)630V	103G 630V	630 Volts	0.01	2%	15.5	8.5	46	0.6
MPT203J(G)630V	203G 630V	630 Volts	0.02	2%	15.5	8.5	46	0.6
MPT223J(G)630V	223G 630V	630 Volts	0.022	2%	15.5	8.5	47	0.6
MPT333J(G)630V	333G 630V	630 Volts	0.033	2%	15.5	9.0	46	0.6
MPT473J(G)630V	473G 630V	630 Volts	0.047	2%	16.0	10.0	46	0.6
MPT503J(G)630V	503G 630V	630 Volts	0.05	2%	15.0	8.0	46	0.6
MPT104J(G)630V	104G 630V	630 Volts	0.1	2%	21.5	8.5	46	0.8
MPT254J(G)630V	254G 630V	630 Volts	0.25	2%	21.5	10.0	46	0.8
MPT504J(G)630V	504G 630V	630 Volts	0.5	2%	21.0	13.5	46	0.8
MPT105J(G)630V	105G 630V	630 Volts	1.0	2%	25.0	13.5	47	0.8
MPT205J(G)630V	205G 630V	630 Volts	2.0	2%	31.0	13.5	46	0.8
		1000 Volts						
MPT202J(K)1000V	202K 1000V	1000 Volts	0.002	10%	17.0	8.0	45	0.6
MPT103J(K)1000V	103K 1000V	1000 Volts	0.01	10%	16.0	8.5	47	0.6
MPT203J(K)1000V	203K 1000V	1000 Volts	0.02	10%	16.5	9.0	47	0.6
MPT503J(K)1000V	503K 1000V	1000 Volts	0.05	10%	15.0	7.5	47	0.6
MPT104J(K)1000V	104K 1000V	1000 Volts	0.1	10%	21.5	9.0	45	0.8

All of the above body measurements and lead lengths are in mm and are +/- 1mm. Lead Dia +/- .05mm.

The above prepared by D.Cantelon of JustRadios (June 2025)

www.justradios.com

