

85° Axial Capacitors



Features:

- 85°C, 2,000 hours assured
- For general purpose application

Specifications:

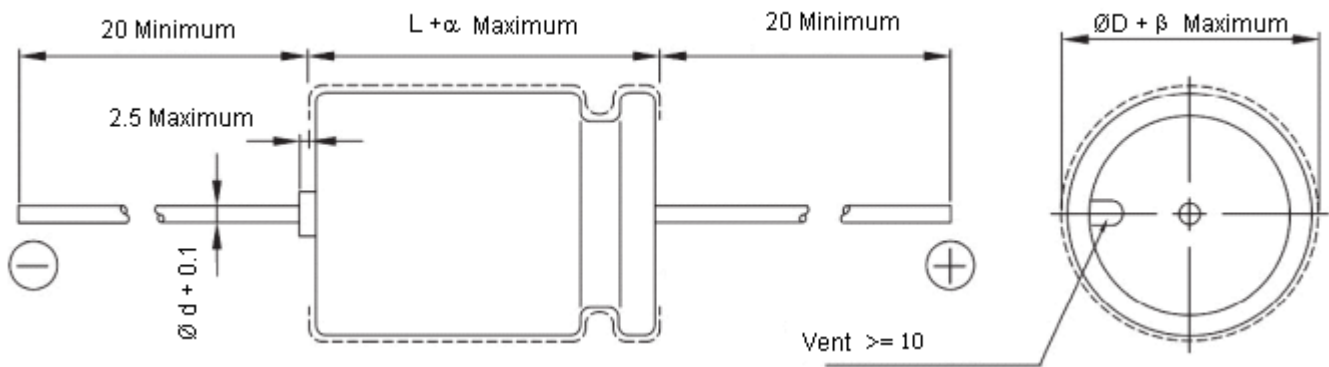
Items	Performance																																																			
Operating Temperature Range	-40°C to +85°C																																																			
Capacitance Tolerance	±20% (at 120 Hz, 20°C)																																																			
Leakage Current (at 20°C)	<table border="1"> <thead> <tr> <th>Rated voltage</th> <th>≤ 100 V</th> <th colspan="2">> 100 V</th> </tr> <tr> <th>Time</th> <th>after 2 minutes</th> <th colspan="2">after 5 minutes</th> </tr> </thead> <tbody> <tr> <td>Leakage Current</td> <td>I = 0.02 CV or 3 (mA) whichever is greater</td> <td>CV ≤ 1,000 I = 0.03 CV + 15 (mA)</td> <td>CV > 1,000 I = 0.02 CV + 25 (mA)</td> </tr> </tbody> </table>	Rated voltage	≤ 100 V	> 100 V		Time	after 2 minutes	after 5 minutes		Leakage Current	I = 0.02 CV or 3 (mA) whichever is greater	CV ≤ 1,000 I = 0.03 CV + 15 (mA)	CV > 1,000 I = 0.02 CV + 25 (mA)																																							
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Where, C = rated capacitance in μ F. V = rated DC working voltage in V																																																				
Dissipation Factor (Tan δ at 120 Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated voltage</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>63</th> <th>100</th> <th>250</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Tan δ (max)</td> <td>0.2</td> <td>0.17</td> <td>0.15</td> <td>0.12</td> <td>0.09</td> <td>0.08</td> <td>0.17</td> <td>0.24</td> </tr> </tbody> </table>	Rated voltage	10	16	25	35	63	100	250	450	Tan δ (max)	0.2	0.17	0.15	0.12	0.09	0.08	0.17	0.24	When the capacitance exceeds 1,000 μ F, 0.02 shall be added every 1,000 μ F increase																																
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Specifications:

Items	Performance					
	Freq. (Hz)	60 (50)	120	500	1K	10K up
Ripple Current and Frequency Multipliers	Cap. (μF)					
	Under 100	0.70	1.00	1.30	1.40	1.50
	$100 < C \leq 1,000$	0.75		1.20	1.30	1.35
1,000 up above	0.80		1.10	1.12	1.15	

Diagram of Dimensions



Lead Spacing and Diameter

$\varnothing D$	5	6.3	8	10	12.5	16	18	22	25
$\varnothing d$	0.6					0.8			
α	1.5			2					
β	0.5								

Dimension : $\varnothing D \times L$ (mm)

Ripple Current: mA / rms at 120 Hz, 85°C

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Dimension and Permissible Ripple Current

V.DC μF	Contents	10 V (1 A)		16 V (1C)		25 V (1E)		35 V (1 V)		63 V (1J)		100 V (2 A)		250 V (2E)		450 V (2 W)	
		∅DxL	mA	∅DxL	mA	∅DxL	mA	∅DxL	mA	∅DxL	mA	∅DxL	mA	∅DxL	mA	∅DxL	mA
0.1	0R1										3		3				
0.22	R22										4.5		5				
0.33	R33										7.5		8				
0.47	R47										9	5 × 12	9				
1	010									5 × 12	15		15	6.3 × 13	12	8 × 16	15
2.2	2R2										30		30	8 × 16	17	10 × 21	23
3.3	3R3										36		40	8 × 21	31		36
4.7	4R7										44	6.3 × 13	41	10 × 17	38	10 × 26	46
10	100						40	5 × 12	55	6.3 × 13	55		72	10 × 21	72	13 × 27	82
22	220			5 × 12	71	5 × 12	76		70	6.3 × 13	109	8 × 16	133	13 × 27	126	16 × 36	143
33	330				85		80	6.3 × 13	115	8 × 13	154	10 × 17	190	16 × 28	178	16 × 42	201
47	470	5 × 12	94	6.3 × 13	88	6.3 × 13	100		138	8 × 16	214	10 × 21	237	16 × 33	241	18 × 42	339
100	101	6.3 × 13	145		160	8 × 13	215	8 × 16	232	10 × 17	326	13 × 22	377	16 × 42	391	25 × 52	448
220	221	8 × 13	231	8 × 13	298	8 × 16	319	10 × 17	401	13 × 22	527	16 × 28	625	22 × 43	632		
330	331		327		365	10 × 17	454	10 × 21	514		675	16 × 33	793				
470	471	8 × 16	390	8 × 16	460	10 × 21	524	13 × 22	613	13 × 27	780	16 × 36	942				
1,000	102	10 × 17	671	10 × 21	775	13 × 22	873	13 × 27	955	16 × 36	1,249	18 × 42	1359				
2,200	222	13 × 22	1,051	13 × 24	1,125	16 × 28	1,344	16 × 33	1,421	22 × 43	1,744	25 × 52	2430				
3,300	332	13 × 27	1,288	16 × 28	1,454	16 × 33	1,611	18 × 36	1,640	25 × 52	2,309						
4,700	472	16 × 28	1,552	16 × 33	1,650	18 × 36	1,881	22 × 43	2,280		2,710						
6,800	682	16 × 33	1,930	18 × 36	2,040	18 × 42	2,170		2,470								
10,000	103	18 × 36	2,122	18 × 42	2,503	22 × 43	2,893	25 × 52	3,180								

85° Axial Capacitors



Part Number Table

Description	Part Number
Capacitor, Axial, 10 V, 470 µF	MCTEA471M1AB-0816P
Capacitor, Axial, 10 V, 1000 µF	MCTEA102M1AB-1017P
Capacitor, Axial, 10 V, 2200 µF	MCTEA222M1AB-1322P
Capacitor, Axial, 10 V, 4700 µF	MCTEA472M1AB-1628P
Capacitor, Axial, 16 V, 22 µF	MCTEA220M1CB-0512P
Capacitor, Axial, 16 V, 100 µF	MCTEA101M1CB-0613P
Capacitor, Axial, 16 V, 220 µF	MCTEA221M1CB-0813P
Capacitor, Axial, 16 V, 470 µF	MCTEA471M1CB-0816P
Capacitor, Axial, 16 V, 1000 µF	MCTEA102M1CB-1021P
Capacitor, Axial, 16 V, 2200 µF	MCTEA222M1CB-1324P
Capacitor, Axial, 16 V, 4700 µF	MCTEA472M1CB-1633P
Capacitor, Axial, 25 V, 10 µF	MCTEA100M1EB-0512P
Capacitor, Axial, 25 V, 22 µF	MCTEA220M1EB-0512P
Capacitor, Axial, 25 V, 47 µF	MCTEA470M1EB-0613P
Capacitor, Axial, 25 V, 100 µF	MCTEA101M1EB-0813P
Capacitor, Axial, 25 V, 220 µF	MCTEA221M1EB-0816P
Capacitor, Axial, 25 V, 470 µF	MCTEA471M1EB-1021P
Capacitor, Axial, 25 V, 1000 µF	MCTEA102M1EB-1322P
Capacitor, Axial, 25 V, 2200 µF	MCTEA222M1EB-1628P
Capacitor, Axial, 25 V, 4700 µF	MCTEA472M1EB-1836P
Capacitor, Axial, 35 V, 22 µF	MCTEA220M1VB-0613P
Capacitor, Axial, 35 V, 100 µF	MCTEA101M1VB-0816P
Capacitor, Axial, 35 V, 220 µF	MCTEA221M1VB-1017P
Capacitor, Axial, 35 V, 470 µF	MCTEA471M1VB-1322P
Capacitor, Axial, 35 V, 1000 µF	MCTEA102M1VB-1327P
Capacitor, Axial, 35 V, 2200 µF	MCTEA222M1VB-1636P
Capacitor, Axial, 35 V, 4700 µF	MCTEA472M1VB-2243P
Capacitor, Axial, 63 V, 22 µF	MCTEA220M1JB-0613P
Capacitor, Axial, 63 V, 47 µF	MCTEA470M1JB-0816P

Description	Part Number
Capacitor, Axial, 63 V, 100 µF	MCTEA101M1JB-1017P
Capacitor, Axial, 63 V, 220 µF	MCTEA221M1JB-1322P
Capacitor, Axial, 63 V, 470 µF	MCTEA471M1JB-1327P
Capacitor, Axial, 63 V, 1000 µF	MCTEA102M1JB-1633P
Capacitor, Axial, 63 V, 2200 µF	MCTEA222M1JB-2043P
Capacitor, Axial, 63 V, 4700 µF	MCTEA472M1JB-2552P
Capacitor, Axial, 100 V, 2.2 µF	MCTEA2R2M2AB-0512P
Capacitor, Axial, 100 V, 4.7 µF	MCTEA4R7M2AB-0613P
Capacitor, Axial, 100 V, 22 µF	MCTEA220M2AB-0816P
Capacitor, Axial, 100 V, 47 µF	MCTEA470M2AB-1021P
Capacitor, Axial, 100 V, 100 µF	MCTEA101M2AB-1322P
Capacitor, Axial, 250 V, 4.7 µF	MCTEA4R7M2EB-0821P
Capacitor, Axial, 250 V, 10 µF	MCTEA100M2EB-1021P
Capacitor, Axial, 250 V, 22 µF	MCTEA220M2EB-1327P
Capacitor, Axial, 250 V, 100 µF	MCTEA101M2EB-1642P
Capacitor, Axial, 450 V, 1 µF	MCTEA010M2WB-0816P
Capacitor, Axial, 450 V, 2.2 µF	MCTEA2R2M2WB-1021P
Capacitor, Axial, 450 V, 4.7 µF	MCTEA4R7M2WB-1026P
Capacitor, Axial, 450 V, 10 µF	MCTEA100M2WB-1327P
Capacitor, Axial, 450 V, 22 µF	MCTEA220M2WB-1633P
Capacitor, Axial, 450 V, 100 µF	MCTEA101M2WB-2552P

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