

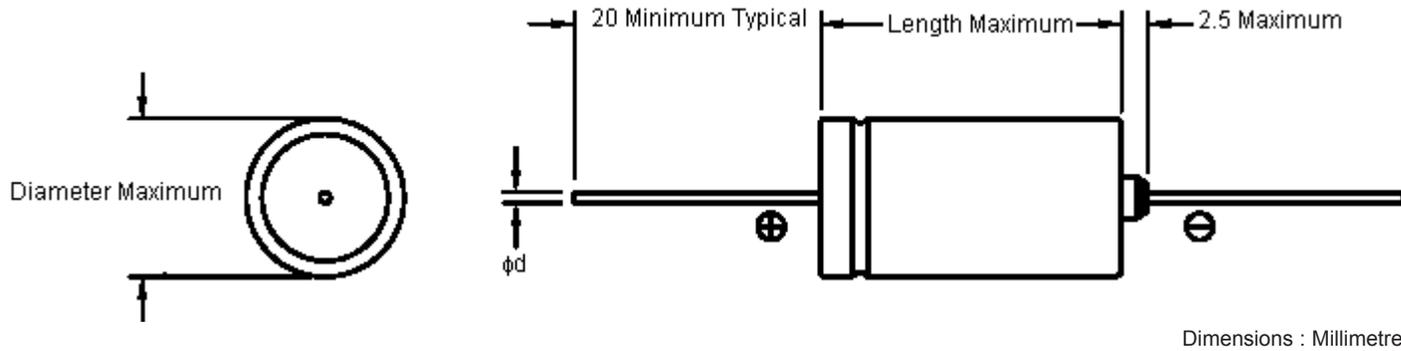


PART NO.

HT Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	S. R	8/5/06	K. S	8/5/06	N. K	22/5/06



**Features:**

- Excellent temperature performance.
- Suitable to use for industrial equipment.
- General purpose 105°C.
- Axial leaded electrolytic.

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<b>DRAWN BY:</b>	<b>DATE:</b>
S. Ram	08/05/2006
<b>CHECKED BY:</b>	<b>DATE:</b>
K. Suresh	08/05/2006
<b>APPROVED BY:</b>	<b>DATE:</b>
N. Kiwomya	22/05/2006

**DRAWING TITLE:**

**HT Series - Axial Electrolytic Capacitors**

<b>SIZE</b> A	<b>DWG NO.</b> M10000227	<b>ELECTRONIC FILE</b> 208520_DWG	<b>REV</b> A
<b>SCALE: NTS</b>		<b>U.O.M.: mm</b>	<b>SHEET: 1 OF 5</b>



PART NO.

HT Series

REVISIONS

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-	A	RELEASED	S. R	8/5/06	K. S	8/5/06	N. K	22/5/06

Characteristics

Item	Characteristic																																						
Operating temperature range	-40°C to +105°C.																																						
Capacitance tolerance	±20% (at 20°C, 120Hz).																																						
Leakage current	I = 0.02CV or 3µA whichever is greater (after 2 minutes applying the rated DC working voltage at 20°C) where C = rated capacitance in µF, V = rated DC working voltage in V.																																						
Dissipation factor (tan δ) (At 20°C, 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Tan δ</td> <td>0.20</td> <td>0.17</td> <td>0.15</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </tbody> </table>	Rated Voltage (V)	10	16	25	35	50	63	100	Tan δ	0.20	0.17	0.15	0.12	0.10	0.09	0.08																						
	Rated Voltage (V)	10	16	25	35	50	63	100																															
Tan δ	0.20	0.17	0.15	0.12	0.10	0.09	0.08																																
For capacitors whose capacitance exceeds 1000µF, the specification of tan δ is increased by 0.02 for every addition of 1000µF.																																							
Surge voltage	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Surge Voltage (V)</td> <td>13</td> <td>20</td> <td>32</td> <td>44</td> <td>63</td> <td>79</td> <td>125</td> </tr> </tbody> </table>	Rated Voltage (V)	10	16	25	35	50	63	100	Surge Voltage (V)	13	20	32	44	63	79	125																						
	Rated Voltage (V)	10	16	25	35	50	63	100																															
Surge Voltage (V)	13	20	32	44	63	79	125																																
Low temperature characteristics	1. Capacitance at +105°C shall not be higher than 115% of the value at 20°C, 120Hz. 2. Impedance ratio at 120Hz.																																						
	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Z (-25°C)/Z (20°C)</td> <td>(Ø &lt;16)</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>(Ø ≥16)</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td rowspan="2">Z (-40°C)/Z (20°C)</td> <td>(Ø &lt;16)</td> <td>6</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> <tr> <td>(Ø ≥16)</td> <td>10</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>6</td> </tr> </tbody> </table>	Rated Voltage (V)	10	16	25	35	50	63	100	Z (-25°C)/Z (20°C)	(Ø <16)	3	3	2	2	2	2	(Ø ≥16)	4	4	3	3	3	3	Z (-40°C)/Z (20°C)	(Ø <16)	6	6	4	4	3	3	(Ø ≥16)	10	8	8	8	8	6
	Rated Voltage (V)	10	16	25	35	50	63	100																															
	Z (-25°C)/Z (20°C)	(Ø <16)	3	3	2	2	2	2																															
(Ø ≥16)		4	4	3	3	3	3																																
Z (-40°C)/Z (20°C)	(Ø <16)	6	6	4	4	3	3																																
	(Ø ≥16)	10	8	8	8	8	6																																
Load life (After 1000 hours application of rated voltage at 85°C, capacitors meet the characteristics requirements listed at right)	<table border="1"> <tbody> <tr> <td>Leakage Current</td> <td>Initial specified value or less</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 200% of the specified value</td> </tr> <tr> <td>Capacitance Change</td> <td>within ±20% of initial value</td> </tr> </tbody> </table>	Leakage Current	Initial specified value or less	Dissipation Factor	Less than 200% of the specified value	Capacitance Change	within ±20% of initial value																																
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	Dissipation Factor	Less than 200% of the specified value																																					
Capacitance Change	within ±20% of initial value																																						
After 1000 hours application of rated voltage at 105°C, capacitors meet the characteristics requirements listed at above.																																							
Shelf life	After leaving capacitors under no load at 105°C for 1000 hours and applying voltage they meet the specified value for load life characteristics listed above.																																						
Marking	Printed with black colour letter on black sleeve.																																						

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S. Ram	08/05/2006
CHECKED BY:	DATE:
K. Suresh	08/05/2006
APPROVED BY:	DATE:
N. Kiwomya	22/05/2006

DRAWING TITLE:

HT Series - Axial Electrolytic Capacitors

SIZE A	DWG NO. M10000227	ELECTRONIC FILE 208520_DWG	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 5	



PART NO.

HT Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	S. R	8/5/06	K. S	8/5/06	N. K	22/5/06

Allowable Ripple Current Vs Ambient Temperature

Ambient Temperature (°C)	Under 50	70°C	85	105
Coefficient	1.95	1.78	1.40	1.00

Frequency Coefficient of Allowable Ripple Current

Frequency (Hz)	60	120	500	1K	10K up
	Capacitance (µF)				
Under 100	0.70	1.00	1.30	1.40	1.50
100 - 1000	0.75		1.20	1.30	1.35
1000 up above	0.80		1.12	1.12	1.15

Specifications

6Voltage (V)	Capacitance (µF)	Diameter	Length	d ±0.0.2	ESR	Allowable Ripple Current (mA)*	Part Number
10	220	8 ±0.5	13 ±1.5	0.6	1.2060	180	HT221M1AB-0813(E)
	1000	10 ±1.0	17 ±2.0		0.2650	486	HT102M1AB-1017(E)
	2200	13 ±1.0	22 ±2.0		0.1320	793	HT222M1AB-1322(E)
16	100	6.3 ±0.5	14 ±1.5		2.2550	135	HT101M1CB-6.314(E)
	220	8 ±0.5	13 ±1.5		1.0250	231	HT221M1CB-0813(E)
	470		16 ±1.5		0.4790	302	HT471M1CB-0816(E)
	1000	10 ±1.0	21 ±2.0		0.2250	569	HT102M1CB-1021(E)
	2200	13 ±1.0	24 ±2.0		0.1140	926	HT222M1CB-1324(E)
4700	16 ±1.0	33 ±2.0	0.0640		1443	HT472M1CB-1633(E)	

\* Ripple Current at 85°C, 120Hz

Dimensions : Millimetres

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N. Kiwomya	22/05/2006

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HT Series - Axial Electrolytic Capacitors			
<b>SIZE</b>	<b>DWG NO.</b>	<b>ELECTRONIC FILE</b>	<b>REV</b>
A	M10000227	208520_DWG	A
<b>SCALE: NTS</b>		<b>U.O.M.: mm</b>	<b>SHEET: 3 OF 5</b>



PART NO.

HT Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	S. R	8/5/06	K. S	8/5/06	N. K	22/5/06

Specifications

Voltage (V)	Capacitance (µF)	Diameter	Length	d ±0.0.2	ESR	Allowable Ripple Current (mA)*	Part Number	
25	10	5 ±0.5	13 ±1.5	0.6	19.9050	39	HT100MEB-0513(E)	
	22	5 ±0.5			9.0470	60	HT220MEB-0513(E)	
	47	6 ±0.5			4.2350	90	HT470M1EB-0613(E)	
	100	8 ±0.5	16 ±1.5		1.9900	145	HT101M1EB-0813(E)	
	220				0.9040	246	HT221M1EB-0816(E)	
	470	10 ±1.0	21 ±2.0		0.4230	432	MCHT471M1EB-1021(E)	
	1000	13 ±1.0	22 ±2.0		0.1990	662	HT102M1EB-1322(E)	
	2200	16 ±1.0	28 ±2.0		0.8	0.1030	1024	HT222M1EB-1628(E)
	4700	18 ±1.0	36 ±2.0			0.0590	1638	HT472M1EB-1836(E)
35	10	5 ±0.5	13 ±1.5	0.6	15.9240	44	HT100M1VB-0513(E)	
	47	6.3 ±0.5	14 ±1.5		3.3880	114	HT470M1VB-6.314(E)	
	100	8 ±0.5	16 ±1.5		1.5920	180	HT101M1VB-0816(E)	
	220	10 ±1.0	17 ±2.0		0.7240	305	HT221M1VB-1017(E)	
	470	13 ±1.0	22 ±2.0		0.3380	490	HT471M1VB-1322(E)	
	1000		27 ±2.0		0.1592	721	HT102M1VB-1327(E)	
	2200	16 ±1.0	36 ±2.0		0.8	0.0840	1177	HT222M1VB-1636(E)

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HT Series

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-	A	RELEASED	S. R	8/5/06	K. S	8/5/06	N. K	22/5/06

Specifications

Voltage (V)	Capacitance (µF)	Diameter	Length	d ±0.0.2	ESR	Allowable Ripple Current (mA)*	Part Number
35	4700	22 ±1.0	42 ±2.0	0.8	0.0508	1878	HT472M1VB-2242(E)
63	10	6 ±0.5	13 ±1.5	0.6	11.9430	55	HT100M1JB-0613(E)
	20	6.3 ±0.5	14 ±1.5		5.4280	90	HT220M1JB-6.314(E)
	47	8 ±0.5	16 ±1.5		2.5000	155	HT470M1JB-0816(E)
	100	10 ±1.0	17 ±2.0		1.1000	248	HT101M1JB-1017(E)
	220	13 ±1.0	22 ±2.0	0.8	0.5000	420	HT221M1JB-1322(E)
	470		27 ±2.0		0.2000	632	HT471M1JB-1327(E)
	1000	16 ±1.0	33 ±2.0	0.1000	984	HT102M1JB-1633(E)	
	2200	20 ±1.0	42 ±2.0	0.5000	1540	HT222M1JB-2042(E)	
100	1	5 ±0.5	13 ±1.5	0.6	106.1000	15	HT010M2AB-0513(E)
	2.2				48.2000	22	HT2R2M2AB-0513(E)
	4.7	22.5000			37	HT4R7M2AB-0613(E)	
	10	6.3 ±0.5	14 ±1.5		10.6000	64	HT100M2AB-6.314(E)
	22	8 ±0.5	16 ±1.5		4.8000	106	HT220M2AB-0816(E)
	47	10 ±1.0	21 ±2.0		2.2000	180	HT470M2AB-1021(E)
	100	13 ±1.0	22 ±2.0		1.0600	287	HT101M2AB-1322(E)

\*Ripple Current at 85°C, 120Hz.

Dimensions : Millimetres

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A	M10000227	208520_DWG	A
<b>SCALE: NTS</b>		<b>U.O.M.: mm</b>	<b>SHEET: 5 OF 5</b>



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<b>A</b>	<b>M10000227</b>	<b>208520_DWG</b>	<b>A</b>
<b>SCALE: NTS</b>		<b>U.O.M.: mm</b>	<b>SHEET: 6 OF 5</b>