



PART NO.

HT Series

REVISIONS

ECN #

REV

DESCRIPTION

DRAWN

DATE

CHECKD

DATE

APPRVD

DATE

-

A

RELEASED

S. R

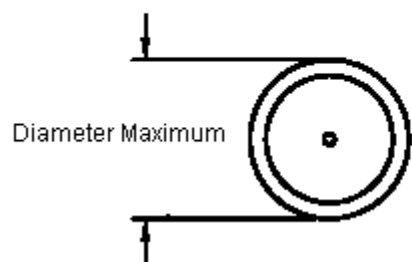
8/5/06

K. S

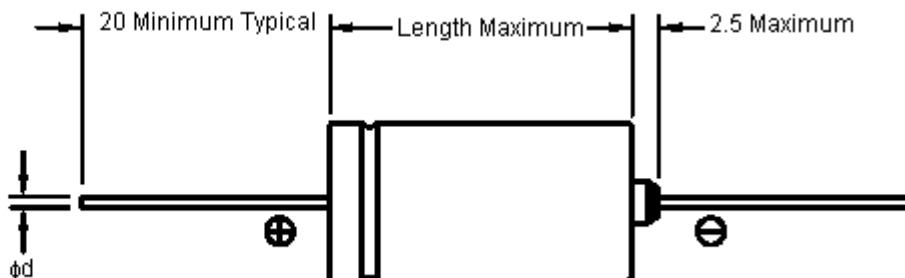
8/5/06

N. K

22/5/06



Diameter Maximum



Dimensions : Millimetres

Features:

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

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DRAWN BY:

S. Ram

DATE:

08/05/2006

CHECKED BY:

K. Suresh

DATE:

08/05/2006

APPROVED BY:

N. Kiwomya

DATE:

22/05/2006

DRAWING TITLE:

HT Series - Axial Electrolytic Capacitors

SIZE
A

DWG NO.

M10000227

ELECTRONIC FILE
208520_DWGREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 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

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><tr><td>Rated Voltage (V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><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></table> For capacitors whose capacitance exceeds 1000µF, the specification of tan δ is increased by 0.02 for every addition of 1000µF.	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																											
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Surge voltage	<table><tr><td>Rated Voltage (V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><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></table>	Rated Voltage (V)	10	16	25	35	50	63	100	Surge Voltage (V)	13	20	32	44	63	79	125																											
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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><tr><td>Rated Voltage (V)</td><td></td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td rowspan="2">Z (-25°C)/Z (20°C)</td><td>(Ø <16)</td><td>3</td><td>3</td><td>2</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><td>3</td></tr><tr><td rowspan="2">Z (-40°C)/Z (20°C)</td><td>(Ø <16)</td><td>6</td><td>6</td><td>4</td><td>4</td><td>3</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><td>6</td></tr></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	2	(Ø ≥16)	4	4	3	3	3	3	3	Z (-40°C)/Z (20°C)	(Ø <16)	6	6	4	4	3	3	3	(Ø ≥16)	10	8	8	8	8	6	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	2																																				
	(Ø ≥16)	4	4	3	3	3	3	3																																				
Z (-40°C)/Z (20°C)	(Ø <16)	6	6	4	4	3	3	3																																				
	(Ø ≥16)	10	8	8	8	8	6	6																																				
Load life (After 1000 hours application of rated voltage at 85°C, capacitors meet the characteristics requirements listed at right)	<table><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></table> After 1000 hours application of rated voltage at 105°C, capacitors meet the characteristics requirements listed at above.	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																																											
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	HT Series - Axial Electrolytic Capacitors			
	CHECKED BY:	DATE:	SIZE A	DWG NO. M10000227	ELECTRONIC FILE 208520_DWG	REV A
	K. Suresh	08/05/2006				
	APPROVED BY:	DATE:	SCALE: NTS		U.O.M.: mm	
N. Kiwomya	22/05/2006					

SHEET: 6 OF 5