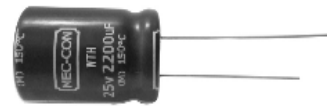
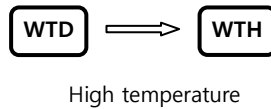




WTH series

Wide temperature RoHS compliant

- 150°C 1,000Hrs assured.
- Long life, Wide temperature
- For Ballaster, LED Lighting power
- RoHS compliant
- Halogen-free capacitors are also available.

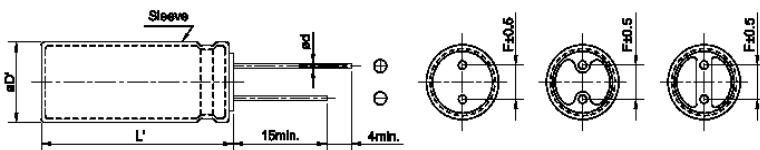


Specifications

Item	Characteristics																		
Rated Voltage Range	10 ~ 50 Vdc																		
Operating Temperature Range	-55 ~ +150°C																		
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)																		
Leakage Current	I=0.03CV(μA) or 4uA whichever is greater Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(Vdc) (at 20°C, 1minutes)																		
Dissipation Factor(Tanδ)	<table border="1"> <tr> <td>Rated voltage (Vdc)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tanδ (max.)</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table> (at 20°C, 120Hz)	Rated voltage (Vdc)	10	16	25	35	50	Tanδ (max.)	0.24	0.20	0.16	0.14	0.12						
Rated voltage (Vdc)	10	16	25	35	50														
Tanδ (max.)	0.24	0.20	0.16	0.14	0.12														
Temperature characteristics (Max,impedance ratio)	<table border="1"> <tr> <td>Rated voltage (Vdc)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>6</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </table> (at 120Hz)	Rated voltage (Vdc)	10	16	25	35	50	Z(-25°C)/Z(20°C)	3	2	2	2	2	Z(-40°C)/Z(20°C)	6	4	4	4	4
Rated voltage (Vdc)	10	16	25	35	50														
Z(-25°C)/Z(20°C)	3	2	2	2	2														
Z(-40°C)/Z(20°C)	6	4	4	4	4														
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for specified life times 1,000hrs at 150°C Capacitance change ≤±30%of the initial value Tan δ ≤300% of the initial specified value Leakage current ≤The initial specified value																		
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 125°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤±30% of the initial value Tanδ ≤300% of the initial specified value Leakage current ≤200%The initial specified value																		

Dimensions

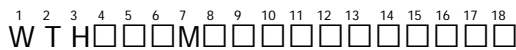
Unit(mm)



- Printed gold color letter on PET black sleeve

	10	12.5	16
ØD	10	12.5	16
Ød	0.6	0.6	0.8
F	5.0	5.0	7.5
ØD'	ØD+0.5 max.		
L'	L+2.0 max		

Code numbering system



Taping, Cutting

Terminal type

Size (10X16: G16)

Capacitance

Capacitance tolerance(M: ±20%, K: ±10%, V : -10~20%)

Rated voltage(ex. 160V→160)

Series name

Ø10	G
Ø12.5	X
Ø16	J

WTH series

Standard Ratings Note1) Ripple current = mArms/150°C,100kHz

WV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
10	470	10 x 16	0.24	370	WTH010□471G16CS□□□
	1,000	12.5 x 20	0.24	600	WTH010□102X20CS□□□
	2,200	16 x 31.5	0.26	1,100	WTH010□222J32CS□□□
	3,300	16 x 35.5	0.28	1,150	WTH010□332J36CS□□□
16	330	10 x 16	0.20	370	WTH016□331G16CS□□□
	470	12.5 x 20	0.20	600	WTH016□471X20CS□□□
	1,000	16 x 31.5	0.20	1,100	WTH016□102J32CS□□□
	2,200	16 x 35.5	0.22	1,150	WTH016□222J36CS□□□
25	220	10 x 16	0.16	370	WTH025□221G16CS□□□
	330	12.5 x 20	0.16	600	WTH025□331X20CS□□□
	470	16 x 31.5	0.16	1,100	WTH025□471J32CS□□□
	1,000	16 x 35.5	0.16	1,150	WTH025□102J36CS□□□
35	100	10 x 16	0.14	360	WTH035□101G16CS□□□
	220	10 x 20	0.14	460	WTH035□221G20CS□□□
	330	12.5 x 20	0.14	600	WTH035□331X20CS□□□
	470	12.5 x 25	0.14	750	WTH035□471X25CS□□□
	1,000	16 x 35.5	0.14	1,150	WTH035□102J36CS□□□
50	100	10 x 20	0.10	300	WTH050□101G20CS□□□
	220	12.5 x 20	0.10	400	WTH050□221X20CS□□□
	330	12.5 x 25	0.10	500	WTH050□331X25CS□□□
	470	16 x 31.5	0.10	700	WTH050□471J32CS□□□

Rated ripple current multipliers

Cap(uF) \ Freq.(Hz)	120	1k	50k	100k
100 ~ 1,000	0.67	0.91	0.95	1.00
2200 ~ 3300	0.50	0.83	0.91	1.00