

## THC series

125°C 2000時間 標準品  
Load Life : 125°C 2000 hours Standard



### ◆規格表／SPECIFICATIONS

| 項目 Item                                                                  | 特性 Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                               |                                                   |                              |                                                            |                         |                                             |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------|---------------------------------------------------|------------------------------|------------------------------------------------------------|-------------------------|---------------------------------------------|
| カテゴリ温度範囲<br>Category Temperature Range                                   | -25～+125℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                               |                                                   |                              |                                                            |                         |                                             |
| 定格電圧範囲<br>Rated Voltage Range                                            | 400～450Vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                               |                                                   |                              |                                                            |                         |                                             |
| 静電容量許容差<br>Capacitance Tolerance                                         | ±20%(20℃, 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                               |                                                   |                              |                                                            |                         |                                             |
| 漏れ電流<br>Leakage Current (MAX)                                            | I=5√CV (定格電圧印加5分後)<br>I=5√CV (After 5 minutes application of rated voltage)<br>I=漏れ電流(μA) C=静電容量(μF) V=定格電圧(Vdc)<br>Leakage Current Capacitance Rated Voltage                                                                                                                                                                                                                                                                                                                                                                 |                            |                               |                                                   |                              |                                                            |                         |                                             |
| 損失角の正接(tan δ)<br>Dissipation Factor (MAX)                                | <table><tr><td>定格電圧(Vdc)<br/>Rated Voltage</td><td>400～450</td></tr><tr><td>tan δ</td><td>0.25</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                              | 定格電圧(Vdc)<br>Rated Voltage | 400～450                       | tan δ                                             | 0.25                         | (20℃, 120Hz)                                               |                         |                                             |
| 定格電圧(Vdc)<br>Rated Voltage                                               | 400～450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                               |                                                   |                              |                                                            |                         |                                             |
| tan δ                                                                    | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                               |                                                   |                              |                                                            |                         |                                             |
| 耐久性<br>Endurance                                                         | 125℃中で2000時間定格電圧(リップル重畳)印加後、下記項目を満足すること。<br>After applying rated voltage with rated ripple current for 2000 hours at 125℃, the capacitors shall meet the following requirements. <table><tr><td>静電容量変化率<br/>Capacitance Change</td><td>初期値の ±20% 以内<br/>Within ±20% of the initial value.</td></tr><tr><td>損失角の正接<br/>Dissipation Factor</td><td>規格値の 200% 以下<br/>Not more than 200% of the specified value.</td></tr><tr><td>漏れ電流<br/>Leakage Current</td><td>規格値以下<br/>Not more than the specified value.</td></tr></table> |                            | 静電容量変化率<br>Capacitance Change | 初期値の ±20% 以内<br>Within ±20% of the initial value. | 損失角の正接<br>Dissipation Factor | 規格値の 200% 以下<br>Not more than 200% of the specified value. | 漏れ電流<br>Leakage Current | 規格値以下<br>Not more than the specified value. |
| 静電容量変化率<br>Capacitance Change                                            | 初期値の ±20% 以内<br>Within ±20% of the initial value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                               |                                                   |                              |                                                            |                         |                                             |
| 損失角の正接<br>Dissipation Factor                                             | 規格値の 200% 以下<br>Not more than 200% of the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                               |                                                   |                              |                                                            |                         |                                             |
| 漏れ電流<br>Leakage Current                                                  | 規格値以下<br>Not more than the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            |                               |                                                   |                              |                                                            |                         |                                             |
| 低温特性<br>Low Temperature Stability<br>(インピーダンス比)<br>Impedance Ratio (MAX) | <table><tr><td>定格電圧(Vdc)<br/>Rated Voltage</td><td>400～450</td></tr><tr><td>Z(-25℃)/Z(+20℃)</td><td>10</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                      | 定格電圧(Vdc)<br>Rated Voltage | 400～450                       | Z(-25℃)/Z(+20℃)                                   | 10                           | (120Hz)                                                    |                         |                                             |
| 定格電圧(Vdc)<br>Rated Voltage                                               | 400～450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                               |                                                   |                              |                                                            |                         |                                             |
| Z(-25℃)/Z(+20℃)                                                          | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                               |                                                   |                              |                                                            |                         |                                             |

### ◆呼称方法／PART NUMBER

|                       |                 |                     |                                  |               |                       |                     |
|-----------------------|-----------------|---------------------|----------------------------------|---------------|-----------------------|---------------------|
| □□□                   | THC             | □□□□□               | M                                | □□□           | SN                    | D x L               |
| 定格電圧<br>Rated Voltage | シリーズ名<br>Series | 静電容量<br>Capacitance | 静電容量許容差<br>Capacitance Tolerance | 副記号<br>Option | 端子記号<br>Terminal Code | ケースサイズ<br>Case Size |

### ◆リップル電流補正係数／ MULTIPLIER FOR RIPPLE CURRENT

|                      |            |              |      |      |      |      |
|----------------------|------------|--------------|------|------|------|------|
| 周波数(Hz)<br>Frequency | 60<br>(50) | 120<br>(100) | 300  | 500  | 1k   | 10k≤ |
| 係数<br>Coefficient    | 0.80       | 1.00         | 1.15 | 1.20 | 1.25 | 1.40 |

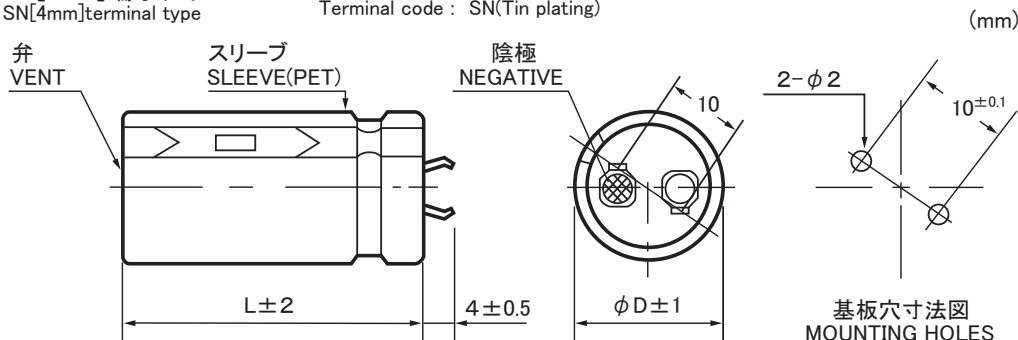
### ◆副記号／OPTION

EFC : PET スリーブ、底板なし  
PET Sleeve without plate

# ◆寸法図／DIMENSIONS

## ●SN[4mm]端子タイプ SN[4mm]terminal type

端子記号 : SN(錫メッキ)  
Terminal code : SN(Tin plating)



# ◆標準品一覧表／STANDARD SIZE

| Cap.( $\mu$ F) | 400Vdc    |      |           |      |           |      |           |      |
|----------------|-----------|------|-----------|------|-----------|------|-----------|------|
|                | $\phi$ 22 |      | $\phi$ 25 |      | $\phi$ 30 |      | $\phi$ 35 |      |
| 82             | 22x25     | 0.79 |           |      |           |      |           |      |
| 100            | 22x30     | 0.91 |           |      |           |      |           |      |
| 120            | 22x30     | 0.98 | 25x25     | 0.96 |           |      |           |      |
| 150            | 22x35     | 1.14 | 25x30     | 1.12 |           |      |           |      |
| 180            | 22x40     | 1.28 | 25x35     | 1.28 |           |      |           |      |
| 220            | 22x50     | 1.50 | 25x40     | 1.45 | 30x30     | 1.35 |           |      |
| 270            | 22x55     | 1.69 | 25x45     | 1.64 | 30x35     | 1.55 |           |      |
| 330            |           |      | 25x55     | 1.90 | 30x40     | 1.75 |           |      |
| 390            |           |      | 25x60     | 2.09 | 30x45     | 1.94 | 35x35     | 1.75 |
| 470            |           |      |           |      | 30x50     | 2.14 | 35x40     | 1.96 |
| 560            |           |      |           |      | 30x60     | 2.45 | 35x45     | 2.16 |
| 680            |           |      |           |      |           |      | 35x55     | 2.52 |
| 820            |           |      |           |      |           |      | 35x60     | 2.72 |

| Cap.( $\mu$ F) | 420Vdc    |      |           |      |           |      |           |      |
|----------------|-----------|------|-----------|------|-----------|------|-----------|------|
|                | $\phi$ 22 |      | $\phi$ 25 |      | $\phi$ 30 |      | $\phi$ 35 |      |
| 82             | 22x25     | 0.79 |           |      |           |      |           |      |
| 100            | 22x30     | 0.91 |           |      |           |      |           |      |
| 120            | 22x30     | 0.99 | 25x25     | 0.96 |           |      |           |      |
| 150            | 22x35     | 1.14 | 25x30     | 1.12 |           |      |           |      |
| 180            | 22x45     | 1.34 | 25x35     | 1.28 |           |      |           |      |
| 220            | 22x50     | 1.51 | 25x40     | 1.45 | 30x30     | 1.35 |           |      |
| 270            | 22x60     | 1.74 | 25x45     | 1.64 | 30x35     | 1.54 |           |      |
| 330            |           |      | 25x55     | 1.90 | 30x40     | 1.74 |           |      |
| 390            |           |      | 25x60     | 2.09 | 30x45     | 1.93 | 35x35     | 1.74 |
| 470            |           |      |           |      | 30x55     | 2.24 | 35x40     | 1.95 |
| 560            |           |      |           |      | 30x60     | 2.44 | 35x45     | 2.15 |
| 680            |           |      |           |      |           |      | 35x55     | 2.51 |

| Cap.( $\mu$ F) | 450Vdc    |      |           |      |           |      |           |      |
|----------------|-----------|------|-----------|------|-----------|------|-----------|------|
|                | $\phi$ 22 |      | $\phi$ 25 |      | $\phi$ 30 |      | $\phi$ 35 |      |
| 68             | 22x25     | 0.71 |           |      |           |      |           |      |
| 82             | 22x30     | 0.82 | 25x25     | 0.81 |           |      |           |      |
| 100            | 22x35     | 0.93 | 25x30     | 0.94 |           |      |           |      |
| 120            | 22x40     | 1.06 | 25x30     | 1.02 |           |      |           |      |
| 150            | 22x45     | 1.21 | 25x35     | 1.18 |           |      |           |      |
| 180            | 22x50     | 1.36 | 25x40     | 1.33 | 30x30     | 1.38 |           |      |
| 220            | 22x60     | 1.56 | 25x50     | 1.55 | 30x35     | 1.47 |           |      |
| 270            |           |      | 25x55     | 1.74 | 30x40     | 1.66 | 35x35     | 1.66 |
| 330            |           |      |           |      | 30x50     | 1.94 | 35x40     | 1.87 |
| 390            |           |      |           |      | 30x55     | 2.14 | 35x45     | 2.08 |
| 470            |           |      |           |      |           |      | 35x50     | 2.30 |
| 560            |           |      |           |      |           |      | 35x55     | 2.53 |

ケースサイズ Case Size  $\phi$  D × L(mm) →  
リプル電流 Ripple Current (A.r.m.s./120Hz, 125°C) →

# Mouser Electronics

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|                                             |                                             |                                             |                                             |
|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| <u><a href="#">400THC330MEFCSN30X40</a></u> | <u><a href="#">420THC120MEFCSN22X30</a></u> | <u><a href="#">420THC390MEFCSN30X45</a></u> | <u><a href="#">450THC180MEFCSN30X30</a></u> |
| <u><a href="#">400THC180MEFCSN22X40</a></u> | <u><a href="#">400THC82MEFCSN22X25</a></u>  | <u><a href="#">420THC220MEFCSN25X40</a></u> | <u><a href="#">420THC220MEFCSN30X30</a></u> |
| <u><a href="#">450THC100MEFCSN25X30</a></u> | <u><a href="#">450THC330MEFCSN35X40</a></u> | <u><a href="#">450THC470MEFCSN35X50</a></u> | <u><a href="#">400THC150MEFCSN22X35</a></u> |
| <u><a href="#">420THC680MEFCSN35X55</a></u> | <u><a href="#">400THC220MEFCSN22X50</a></u> | <u><a href="#">400THC680MEFCSN35X55</a></u> | <u><a href="#">420THC270MEFCSN22X60</a></u> |
| <u><a href="#">400THC270MEFCSN22X55</a></u> | <u><a href="#">400THC270MEFCSN30X35</a></u> | <u><a href="#">450THC180MEFCSN22X50</a></u> | <u><a href="#">400THC270MEFCSN25X45</a></u> |
| <u><a href="#">400THC470MEFCSN30X50</a></u> | <u><a href="#">420THC330MEFCSN30X40</a></u> | <u><a href="#">450THC180MEFCSN25X40</a></u> | <u><a href="#">450THC270MEFCSN35X35</a></u> |
| <u><a href="#">400THC180MEFCSN25X35</a></u> | <u><a href="#">400THC820MEFCSN35X60</a></u> | <u><a href="#">420THC220MEFCSN22X50</a></u> | <u><a href="#">450THC100MEFCSN22X35</a></u> |
| <u><a href="#">450THC390MEFCSN35X45</a></u> | <u><a href="#">400THC120MEFCSN22X30</a></u> | <u><a href="#">420THC560MEFCSN30X60</a></u> | <u><a href="#">450THC150MEFCSN22X45</a></u> |
| <u><a href="#">420THC470MEFCSN35X40</a></u> | <u><a href="#">400THC120MEFCSN25X25</a></u> | <u><a href="#">420THC270MEFCSN30X35</a></u> | <u><a href="#">420THC82MEFCSN22X25</a></u>  |
| <u><a href="#">450THC270MEFCSN25X55</a></u> | <u><a href="#">400THC390MEFCSN30X45</a></u> | <u><a href="#">420THC470MEFCSN30X55</a></u> | <u><a href="#">450THC220MEFCSN25X50</a></u> |
| <u><a href="#">420THC120MEFCSN25X25</a></u> | <u><a href="#">450THC220MEFCSN30X35</a></u> | <u><a href="#">420THC150MEFCSN25X30</a></u> | <u><a href="#">420THC330MEFCSN25X55</a></u> |
| <u><a href="#">420THC390MEFCSN25X60</a></u> | <u><a href="#">450THC330MEFCSN30X50</a></u> | <u><a href="#">400THC100MEFCSN22X30</a></u> | <u><a href="#">400THC330MEFCSN25X55</a></u> |
| <u><a href="#">400THC390MEFCSN25X60</a></u> | <u><a href="#">400THC390MEFCSN35X35</a></u> | <u><a href="#">420THC100MEFCSN22X30</a></u> | <u><a href="#">420THC390MEFCSN35X35</a></u> |
| <u><a href="#">450THC220MEFCSN22X60</a></u> | <u><a href="#">400THC220MEFCSN30X30</a></u> | <u><a href="#">450THC150MEFCSN25X35</a></u> | <u><a href="#">450THC82MEFCSN25X25</a></u>  |
| <u><a href="#">400THC560MEFCSN35X45</a></u> | <u><a href="#">420THC180MEFCSN25X35</a></u> | <u><a href="#">420THC270MEFCSN25X45</a></u> | <u><a href="#">450THC560MEFCSN35X55</a></u> |
| <u><a href="#">400THC150MEFCSN25X30</a></u> | <u><a href="#">420THC150MEFCSN22X35</a></u> | <u><a href="#">420THC560MEFCSN35X45</a></u> | <u><a href="#">450THC68MEFCSN22X25</a></u>  |
| <u><a href="#">400THC220MEFCSN25X40</a></u> | <u><a href="#">450THC120MEFCSN25X30</a></u> | <u><a href="#">450THC390MEFCSN30X55</a></u> | <u><a href="#">400THC560MEFCSN30X60</a></u> |
| <u><a href="#">420THC180MEFCSN22X45</a></u> | <u><a href="#">450THC120MEFCSN22X40</a></u> | <u><a href="#">400THC470MEFCSN35X40</a></u> | <u><a href="#">450THC270MEFCSN30X40</a></u> |
| <u><a href="#">450THC82MEFCSN22X30</a></u>  |                                             |                                             |                                             |