

## RTC-6242 vs RTC-7242 対比表

### ACタイミング特性 実力値

ここに掲載されるデータは保証値ではなく、  
任意ロットの参考実力値です。  
RTC-6242をRTC-7242に置き換えなどの際  
ご参考としてご利用ください。

値は-40℃～85℃のワースト値です。  
サンプル数は約50個です。

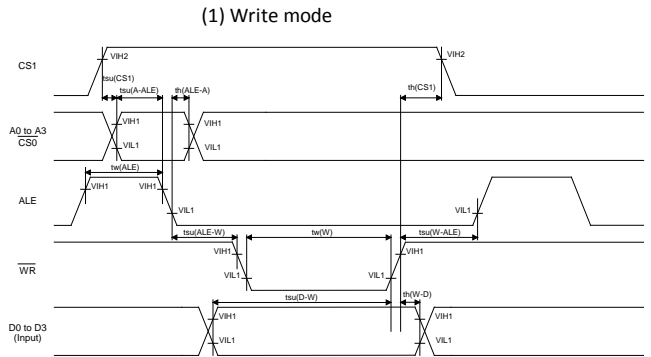
# ALE 使用時

VDD=5 V ± 0.5 V,

(1) Write mode

Upper line RTC-6242 specification.  
Lower line RTC-7242 specification

| Symbol     | Min. | Ability of RTC7242 | Unit |
|------------|------|--------------------|------|
| tC1S       | 1000 | 0                  | ns   |
| tsu(CS1)   | 1000 |                    |      |
| tAS        | 25   | 12                 |      |
| tsu(A-ALE) | 50   |                    |      |
| tAH        | 50   | 6                  |      |
| th(ALE-A)  | 50   |                    |      |
| tAW        | 40   | 25                 |      |
| tw(ALE)    | 80   |                    |      |
| tALW       | 10   | -60                |      |
| tsu(ALE-W) | 0    |                    |      |
| tWW        | 120  | 50                 |      |
| tw(W)      | 120  |                    |      |
| tWAL       | 20   | 0                  |      |
| tsu(W-ALE) | 50   |                    |      |
| tDS        | 100  | 45                 |      |
| tsu(D-W)   | 80   |                    |      |
| tDH        | 10   | -6                 |      |
| th(W-D)    | 10   |                    |      |
| tC1H       | 1000 | 0                  |      |
| th(CS1)    | 1000 |                    |      |
| tRCV       | 60   | 100                |      |
| trec(W)    | 200  |                    |      |



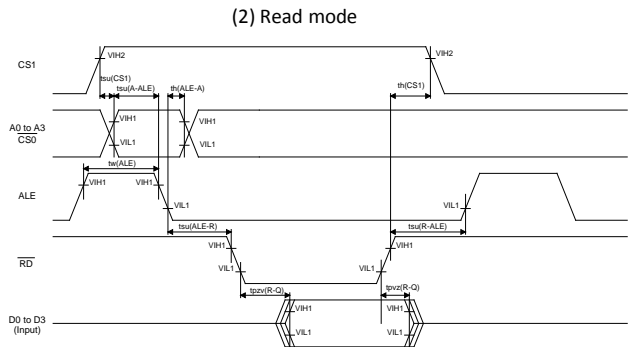
マイナス値の意味。

tsuALE-Wの実力値はWR立下りから60ns後にアドレス確定しても正常動作したということです。

(2) Read mode

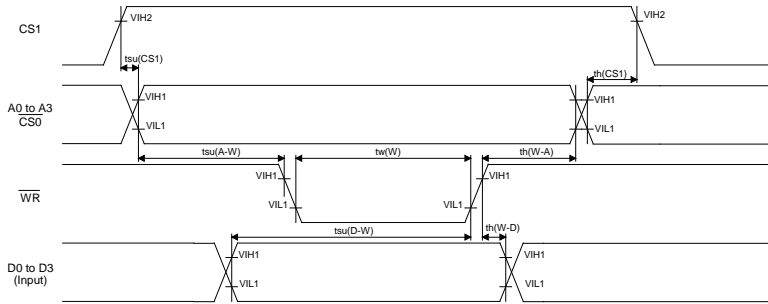
Upper line RTC-6242 specification.  
Lower line RTC-7242 specification.

| Symbol              | Min. | Max. | Ability of RTC7242 | Unit |
|---------------------|------|------|--------------------|------|
| tC1S                | 1000 | -    | 0                  | ns   |
| tsu(CS1)            | 1000 |      |                    |      |
| tAS                 | 25   | -    | 12                 |      |
| tsu(A-ALE)          | 50   |      |                    |      |
| tAH                 | 25   | -    | 6                  |      |
| th(ALE-A)           | 50   |      |                    |      |
| tAW                 | 40   | -    | 14                 |      |
| tw(ALE)             | 80   |      |                    |      |
| tALR                | 10   | -    | -55                |      |
| tsu(ALE-R)          | 0    |      |                    |      |
| tRAL                | 10   | -    | -30                |      |
| tsu(R-ALE)          | 50   |      |                    |      |
| tRD<br>(Cl=150 pF ) | -    | 120  | 85                 |      |
| tDR                 | 0    | 70   | 50                 |      |
| tpvz(R-Q)           | 0    |      |                    |      |
| tC1H                | 1000 | -    | 0                  |      |
| th(CS1)             | 1000 |      |                    |      |
| tRCV                | 60   | -    | 50                 |      |
| trec(W)             | 200  |      |                    |      |



ALEをVDD固定時 Write mode (VDD=5 V ± 0.5 V)

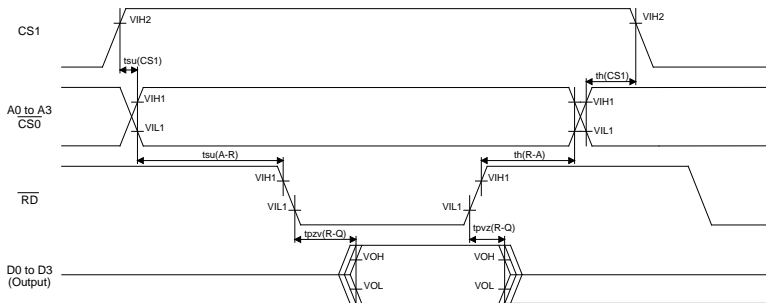
(1) Write mode



Upper line RTC-6242 specification.  
Lower line RTC-7242 specification

| Item                                | Symbol        | Min. | Ability of RTC-7242 | Unit |
|-------------------------------------|---------------|------|---------------------|------|
| CS1 set-up time                     | $t_{C1S}$     | 1000 | 0                   | ns   |
|                                     | $t_{su}(CS1)$ | 1000 |                     |      |
|                                     | $t_{th}(CS1)$ | 1000 |                     |      |
| CS1 hold time                       | $t_{C1H}$     | 1000 | 0                   | ns   |
|                                     | $t_{th}(CS1)$ | 1000 |                     |      |
| Address set-up time before write    | $t_{AW}$      | 50   | -30                 | ns   |
|                                     | $t_{su}(A-W)$ | 50   |                     |      |
| Address hold time after write       | $t_{WA}$      | 10   | -80                 | ns   |
|                                     | $t_{th}(W-A)$ | 10   |                     |      |
| Write pulse width                   | $t_w(W)$      | 120  | 50                  | ns   |
| Data input set-up time before write | $t_{su}(D-W)$ | 80   | 45                  | ns   |
| Data input hold time after write    | $t_{th}(W-D)$ | 10   | -6                  | ns   |
| Write recovery time                 | $t_{rec}(W)$  | 200  | 100                 | ns   |

(2) Read mode



Upper line RTC-6242 specification.  
Lower line RTC-7242 specification

| Item  | Symbol                            | Min. | Max. | Ability of RTC-7242 | Unit |
|---|-----------------------------------|------|------|---------------------|------|
| CS1 set-up time                               | $t_{C1S}$                         | 1000 |      | 0                   | ns   |
|   | $t_{su}(CS1)$                     | 1000 |      |                     |      |
|   | $t_{th}(CS1)$                     | 1000 |      |                     |      |
| CS1 hold time                                 | $t_{C1H}$                         | 1000 |      | 0                   | ns   |
|   | $t_{th}(CS1)$                     | 1000 |      |                     |      |
| Address set-up time before read               | $t_{AR}$                          | 20   |      | -5                  | ns   |
|   | $t_{su}(A-R)$                     | 50   |      |                     |      |
| Address hold time after read                  | $t_{RA}$                          | 0    |      | -60                 | ns   |
|   | $t_{th}(R-A)$                     | 10   |      |                     |      |
| Data output transfer time after read          | $t_{pvz}(R-Q)$<br>( $C_L=150$ pF) | -    | 120  | 85                  | ns   |
|   | $t_{zvz}(R-Q)$                    | -    | 120  |                     |      |
| Data output floating transfer time after read | $t_{DR}$                          | 0    | -    | 50                  | ns   |
|   | $t_{pvz}(R-Q)$                    | 0    | 70   |                     |      |
| Read recovery time                            | $t_{RCV}$                         | 60   |      | 50                  | ns   |
|   | $t_{rec}(R)$                      | 60   |      |                     |      |

(3) Read/write recovery mode

