

# ECASD40J107M015K00 4M変更前後信頼性結果比較資料

## ECASD40J107M015K00 Comparison of Reliability Test Results Before and After 4M Change

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化学デバイス商品部・販売促進課

Chemical Device Dept. Sales Promotion Sec.

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# 4M変更の背景/Background of 4M Change

当該商品につきましては主要材料であるアルミ箔を外販で入手しており、旧タイプのアルミ材料をしております。

旧タイプ材料は購入継続性の観点でリスクを抱えており、生産効率の良いアルミ材料に変更することで生産能力の向上と供給継続性が担保でき、お客様からの需要増にも応えることが可能となります。

上記を踏まえ、今後生産能力を向上させ供給責任を継続して果たすため材料の変更を行います。

For this product, we currently source the key material "aluminum foil" from external suppliers, and we are using an old type of aluminum material.

Continuing to purchase the older types poses a risk in terms of supply continuity.

By switching to aluminum materials with higher production efficiency, we can improve production capacity and ensure a steady supply, enabling us to meet our customers' future demand growth.

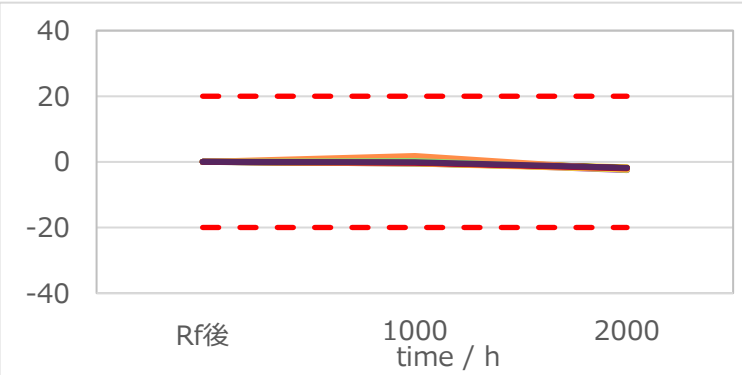
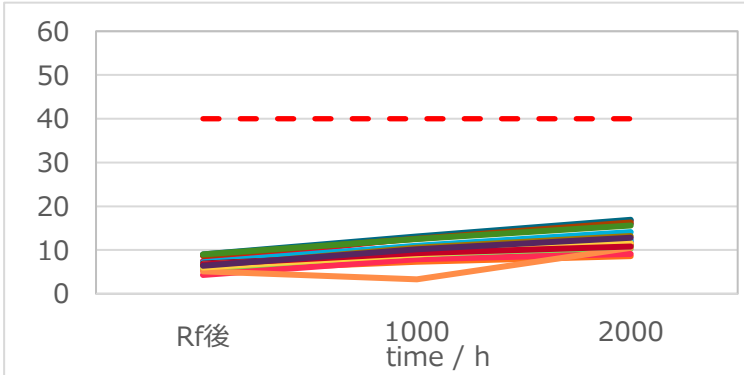
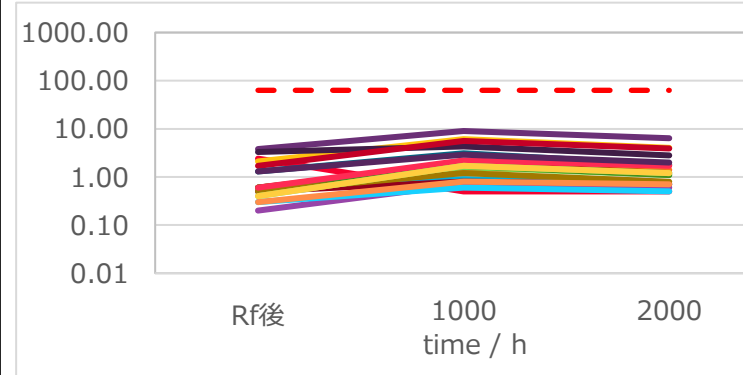
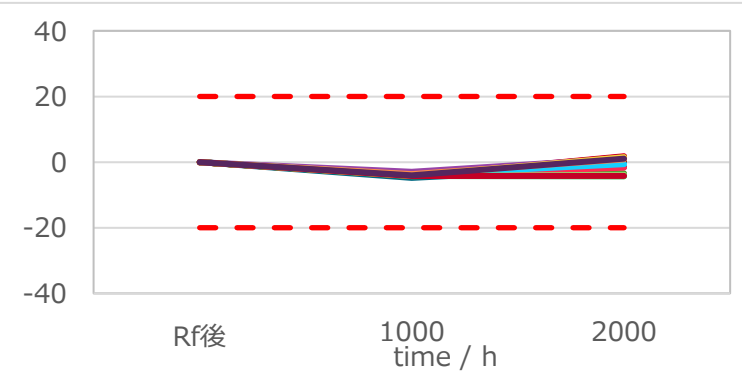
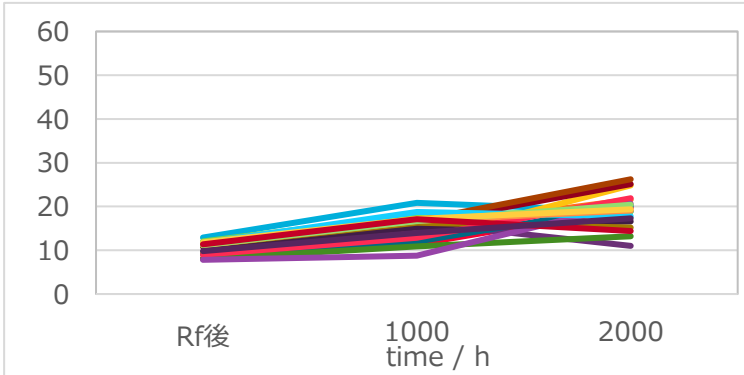
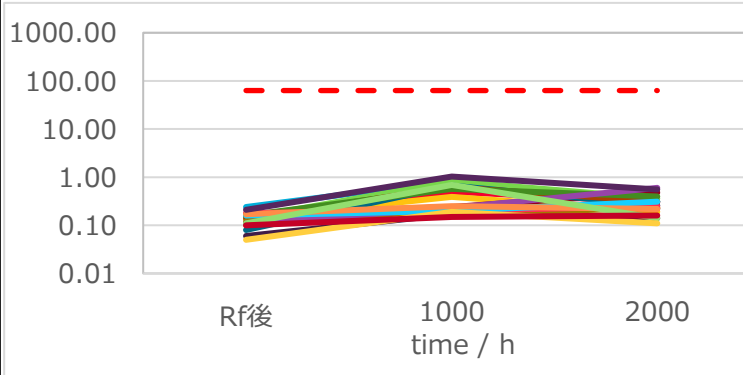
Based on the above, we will change the material to improve production capacity and continue to fulfill our supply obligations.

# 製品仕様比較/Product Specifications Comparison

| 項目                            | ECASD40J107M015K00<br>(Before 4M change) | ECASD40J107M015K00<br>(After 4M change) |
|-------------------------------|------------------------------------------|-----------------------------------------|
| L                             | 7.3±0.3mm                                | 7.3±0.3mm                               |
| W                             | 4.3±0.2mm                                | 4.3±0.2mm                               |
| T                             | 1.9±0.1mm                                | 1.9±0.1mm                               |
| Ripple Current                | 5.1Arms                                  | 5.1Arms                                 |
| Cap                           | 100μF ±20%                               | 100μF ±20%                              |
| ESR                           | 15mΩ                                     | 15mΩ                                    |
| LC                            | 63.0μA                                   | 63.0μA                                  |
| Maximum operating temperature | 105C                                     | 105C                                    |
| Minimum operating temperature | -40C                                     | -40C                                    |
| Rated Voltage                 | 6.3Vdc                                   | 6.3Vdc                                  |



# Endurance 高温負荷(105C/Rated Voltage)

|                  | $\Delta Cap(\%)$                                                                   | ESR(m $\Omega$ )                                                                     | LC(uA)                                                                               |
|------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Before 4M change |   |   |   |
| After 4M change  |  |  |  |

# Shelf Life 高温放置(105C)

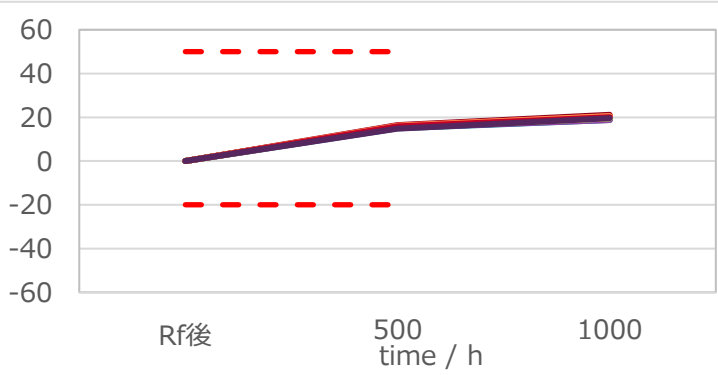
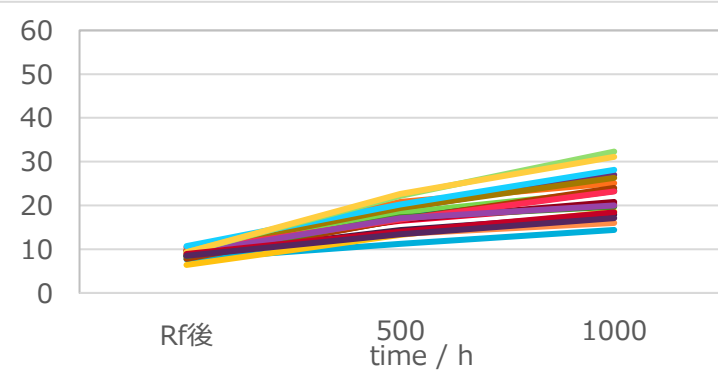
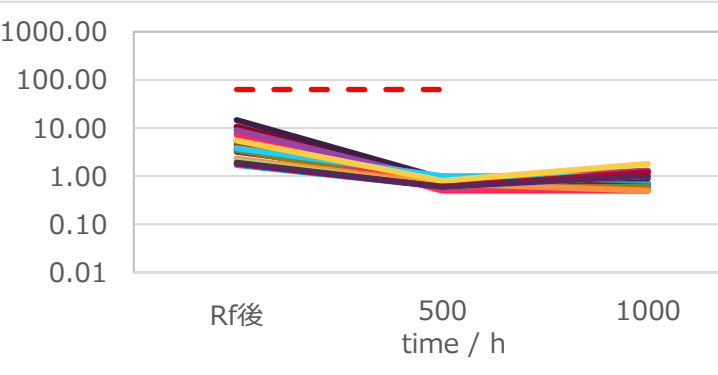
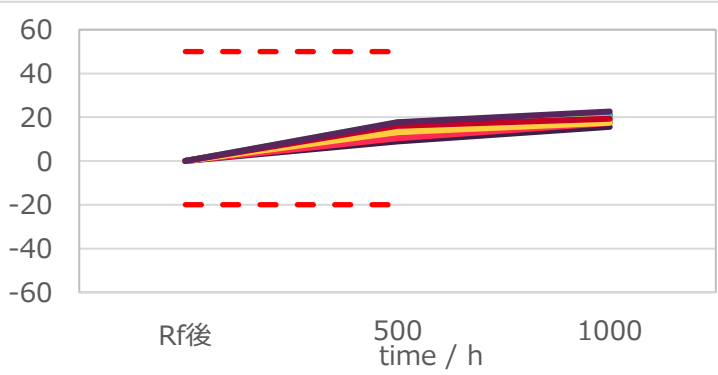
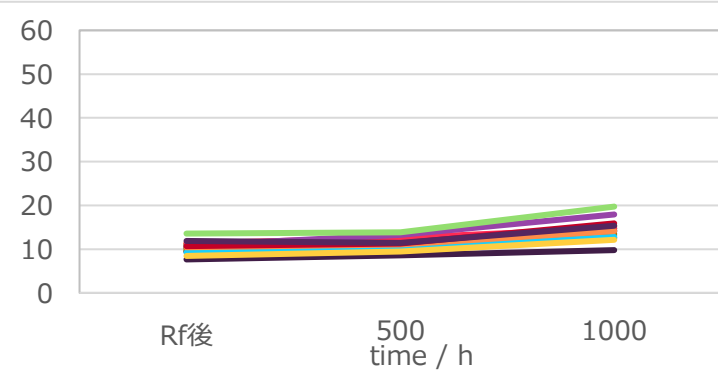
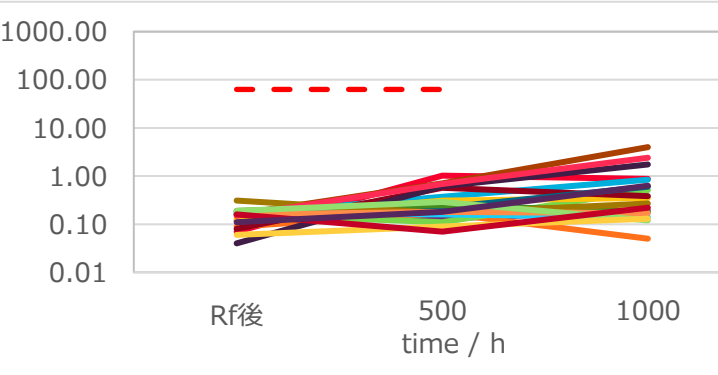
|                  | $\Delta Cap(\%)$ | ESR(m $\Omega$ ) | LC(uA) |
|------------------|------------------|------------------|--------|
| Before 4M change |                  |                  |        |
| After 4M change  |                  |                  |        |



Moisture resistance under load 耐湿負荷

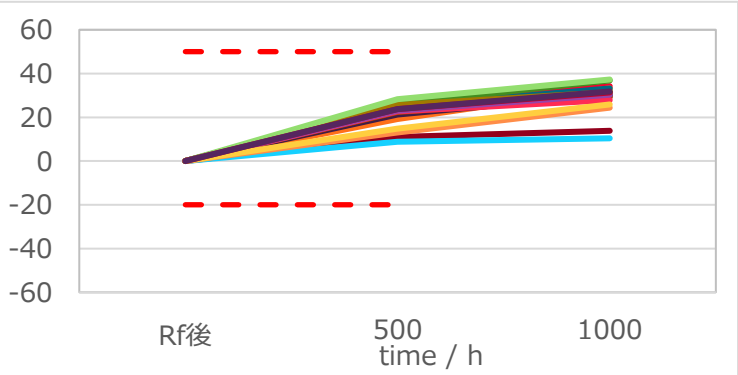
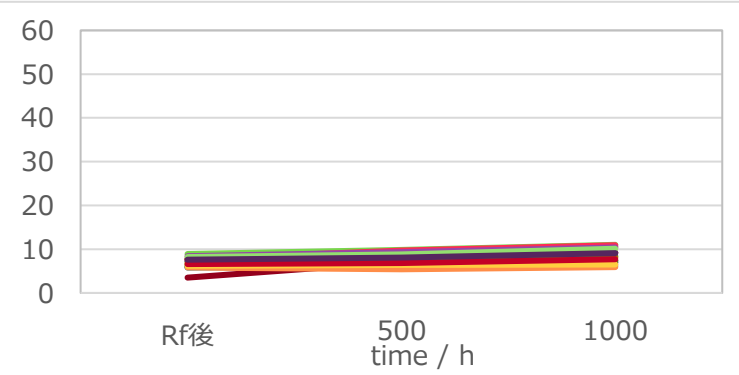
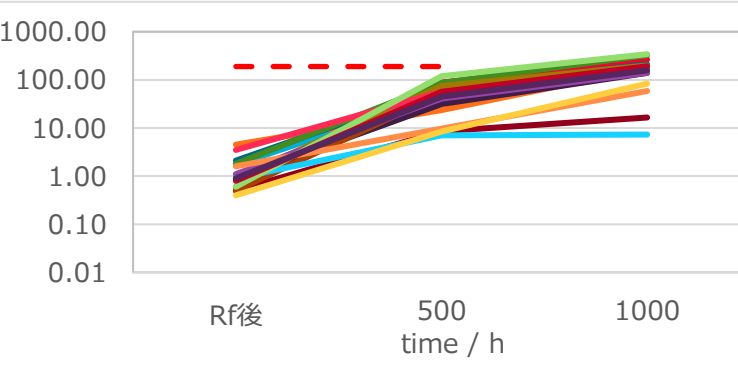
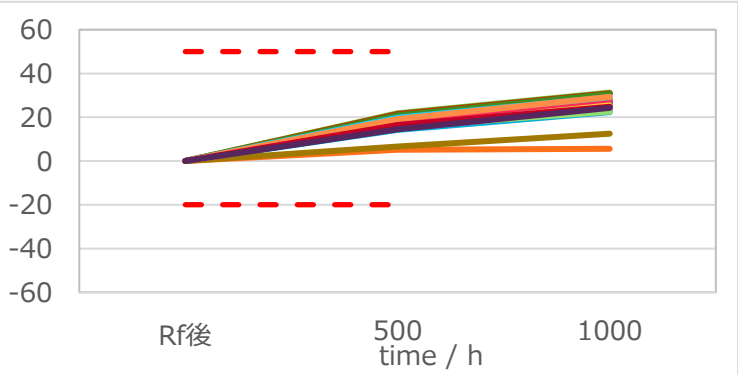
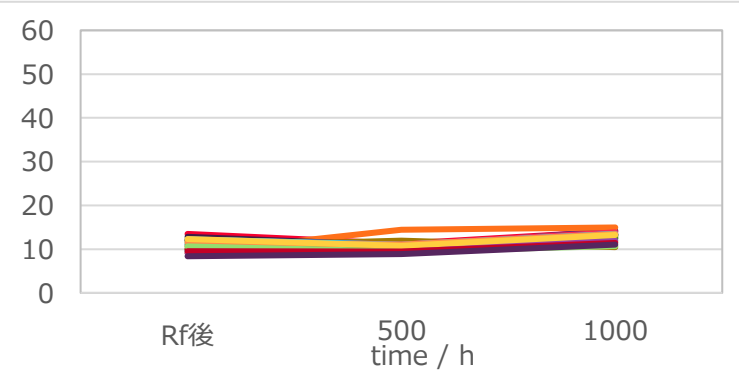
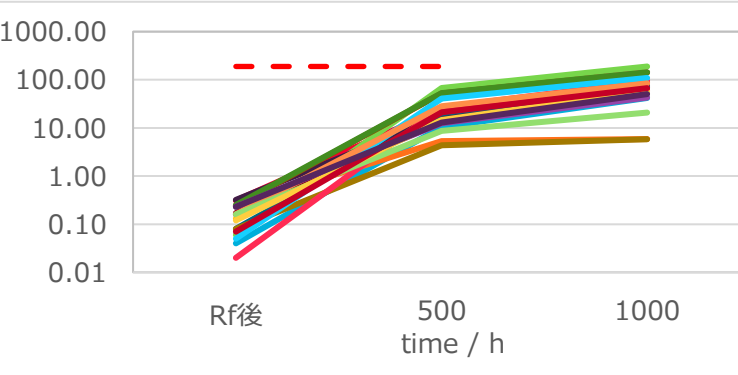
(60C/93%Rated Voltage)

*muRata*

|                  | $\Delta Cap(\%)$                                                                   | ESR(m $\Omega$ )                                                                     | LC(uA)                                                                               |
|------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Before 4M change |   |   |   |
| After 4M change  |  |  |  |



# Moisture resistance under no bias 耐湿放置(60C93%)

|                  | $\Delta Cap(\%)$                                                                   | ESR(m $\Omega$ )                                                                     | LC(uA)                                                                               |
|------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Before 4M change |   |   |   |
| After 4M change  |  |  |  |

# 弊社見解/Our assessment

4M変更前後で製品仕様に変更は認められず、信頼性試験結果についても同等であることを確認しております。  
以上より、当該4M変更に起因する代替リスクは軽微であると判断しております。

We have confirmed that no changes are observed in the product specifications before and after the 4M change, and that the reliability test results are also equivalent.

Based on the above, we judge that the substitution risk arising from the 4M change is minimal.