



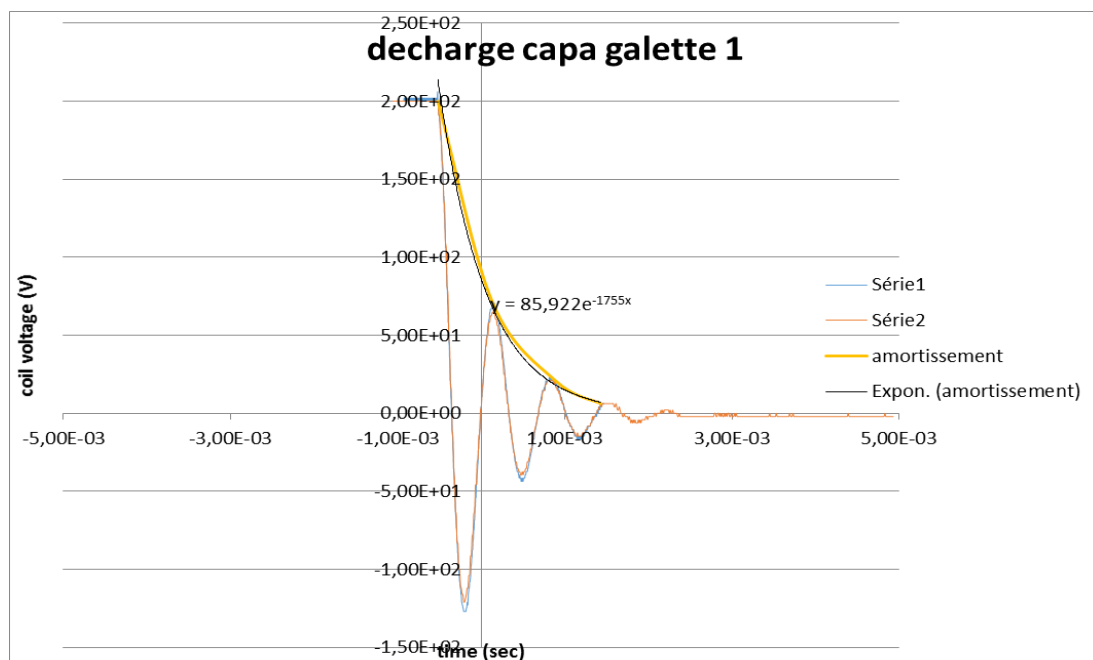
# 2015-01-19 ELECTRICAL COIL CONTROL REPORT

Customer : JLAB  
 Date : 19/01/2015  
 ΣΦ reference : 318711  
 Drawing : 318711-squelette-QPOLES-V115-revB  
 Revision : A

| Designation : | Identification :                          | UNIT | REQUIRED | RESULT | Date Initial | ACTION |
|---------------|---|------|----------|--------|--------------|--------|
| Coil B        | Serial N° : first double pancake (GD n°1) |      |          |        |              |        |

## After moulding (without mandrei) before brazing

|  |    |  |  |       |             |  |
|--|----|--|--|-------|-------------|--|
| Ring test at 198V (2.17V/turn) and damping coefficient | /  |  |  | 1755  | AJ 19/01/15 |  |
| Period   | μs |  |  | 688   | AJ 19/01/15 |  |
| DC resistance value at 20° C (100mA)                   | mΩ |  |  | 116.5 | AJ 19/01/15 |  |
| Inductance at 400hz                                    | mH |  |  | 5.11  | AJ 19/01/15 |  |



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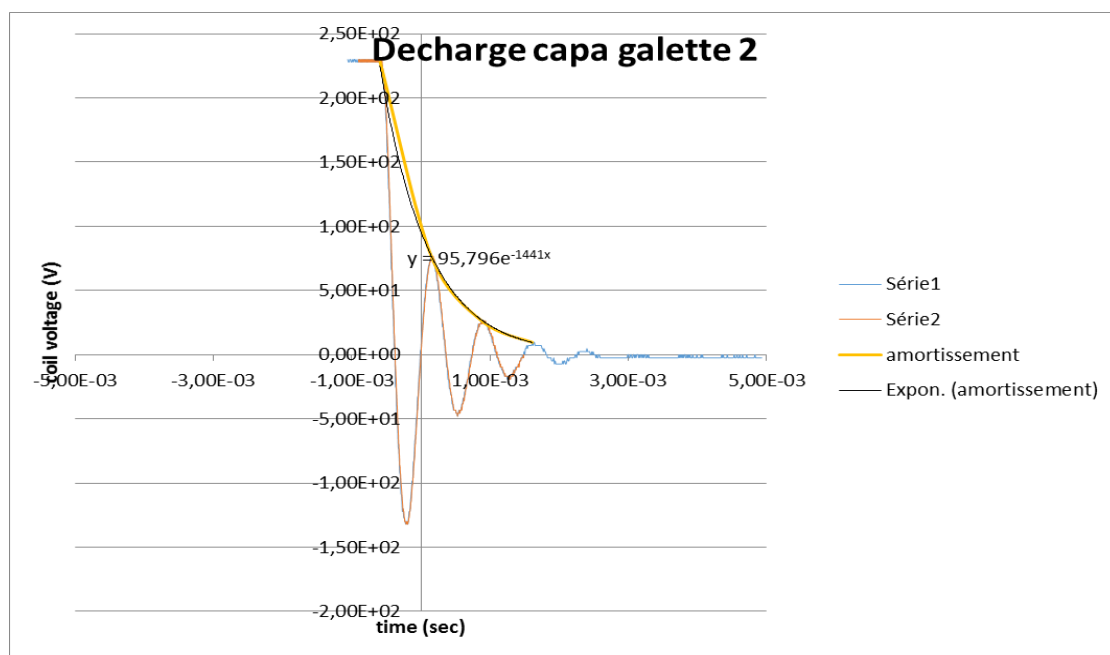
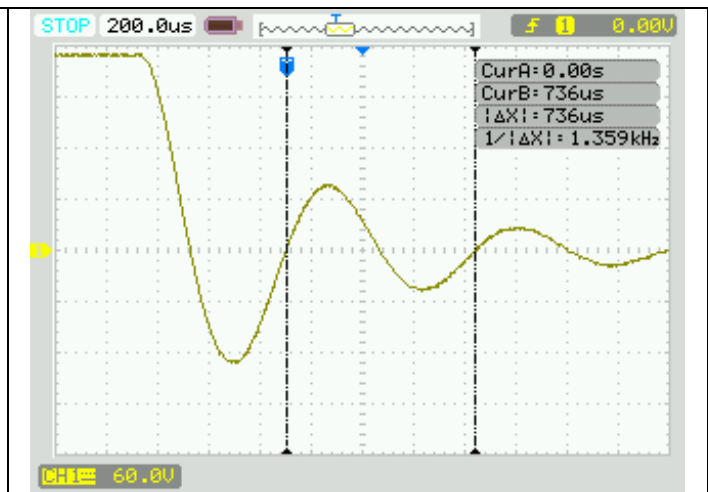
Customer : JLAB  
 Date: 19/01/2015  
 ΣΦ reference : 318711  
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 Revision : A

Identification :  
 Serial N° : second double  
 pancake (GD n°2)

| UNI<br>T | REQUI<br>RED | RESULT | Date<br>Initial | ACTIO<br>N |
|----------|--------------|--------|-----------------|------------|
|----------|--------------|--------|-----------------|------------|

## After moulding (without mandrei) before brazing

|  |    |              |             |  |
|--|----|--------------|-------------|--|
| Ring test at 220V (2.17V/turn) and damping coefficient | /  | <b>1441</b>  | AJ 19/01/15 |  |
| Period   | μs | <b>736</b>   | AJ 19/01/15 |  |
| DC resistance value at 20° C (100mA)                   | mΩ | <b>131.1</b> | AJ 19/01/15 |  |
| Inductance at 400hz                                    | mH | <b>5.73</b>  | AJ 19/01/15 |  |



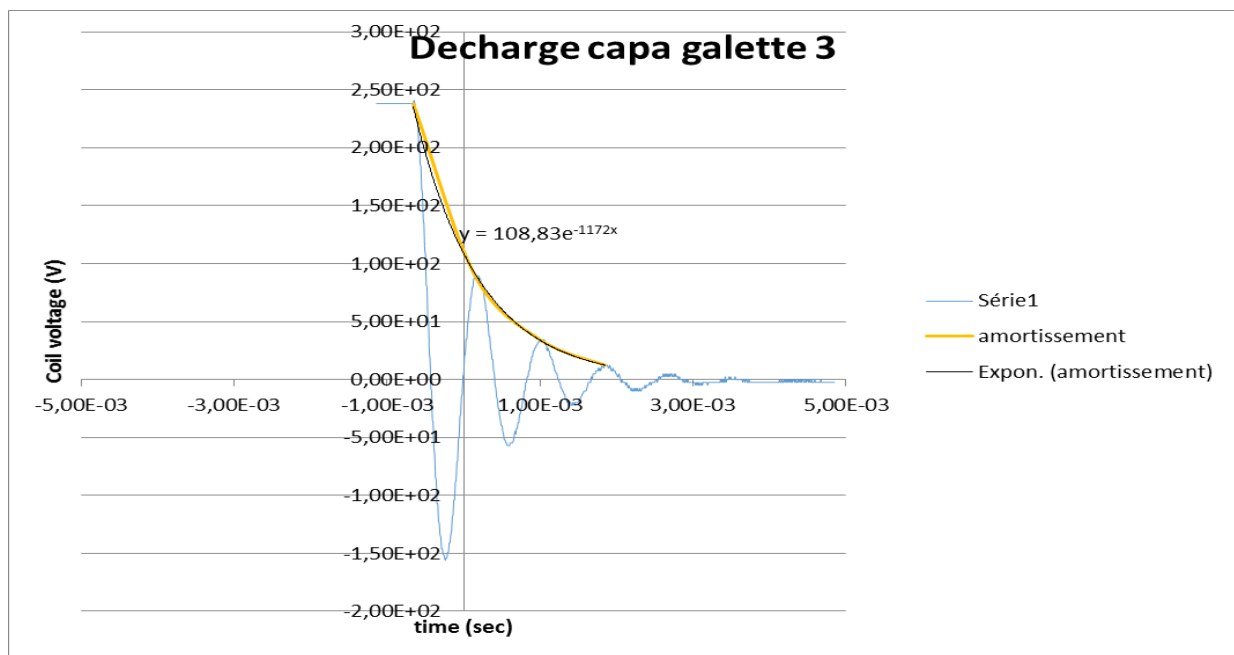
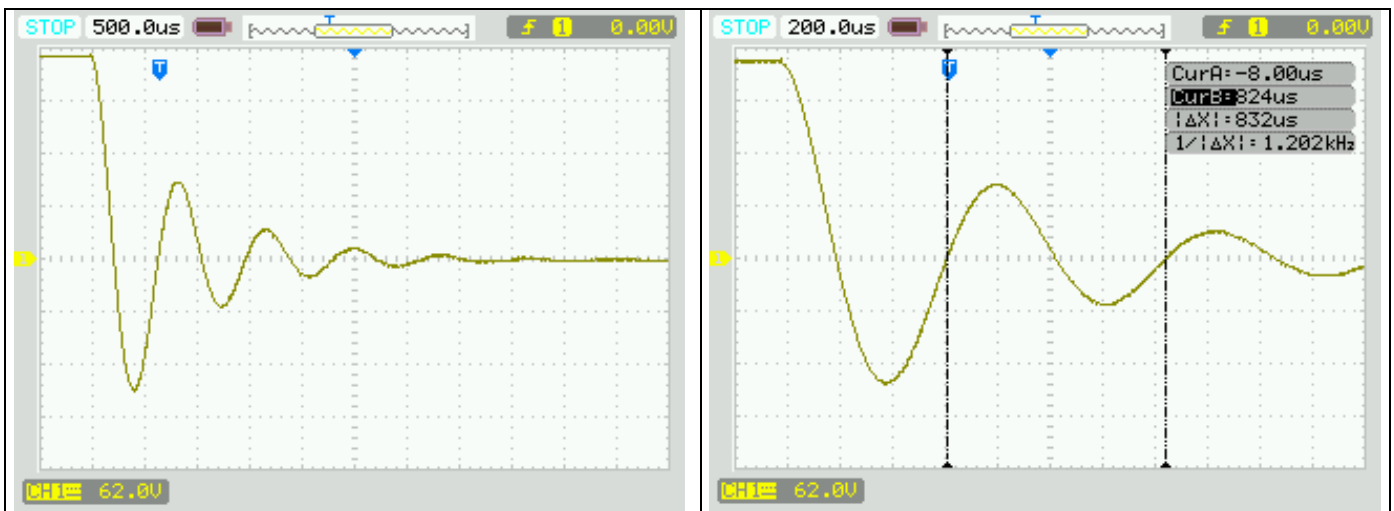
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 Revision : A

Identification :  
 Serial N° : third double  
 pancake (GD n°3)

| UNI<br>T   | REQUI<br>RED | RESULT       | Date<br>Initial | ACTIO<br>N |
|--|--------------|--------------|-----------------|------------|
| <b>After moulding (without mandrei) before brazing</b> |              |              |                 |            |
| Ring test at 243V (2.17V/turn) and damping coefficient | /            | <b>1172</b>  | AJ 19/01/15     |            |
| Period   | μs           | <b>832</b>   | AJ 19/01/15     |            |
| DC resistance value at 20° C (100mA)                   | mΩ           | <b>145.4</b> | AJ 19/01/15     |            |
| Inductance at 400hz                                    | mH           | <b>7.15</b>  | AJ 19/01/15     |            |



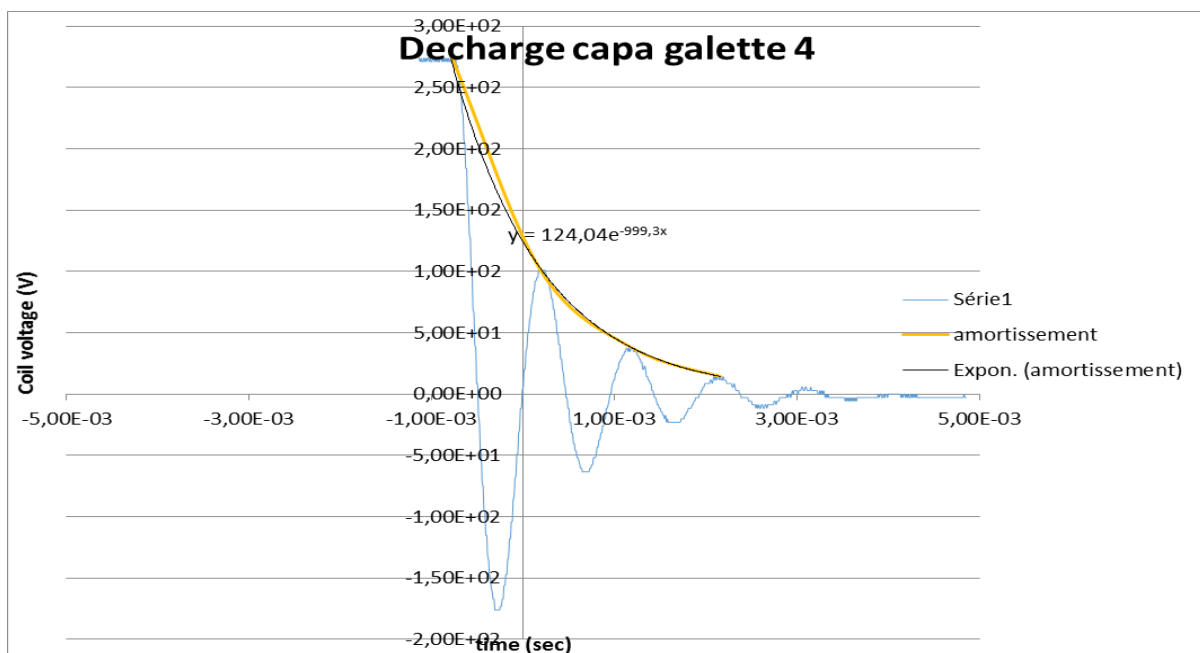
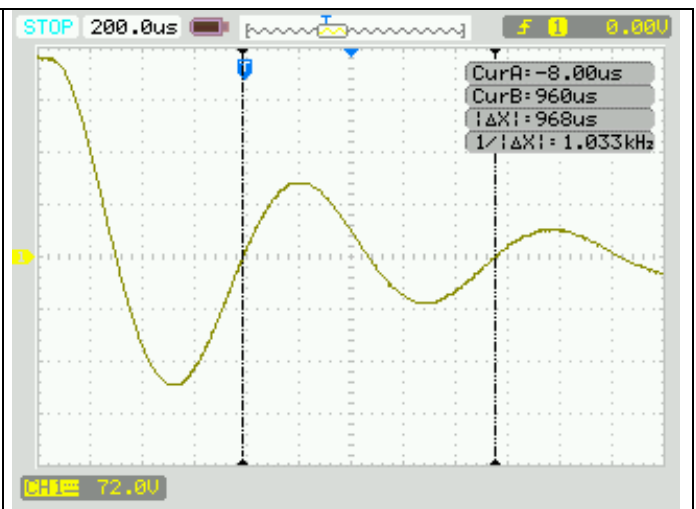
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 Revision : A

Identification :  
 Serial N° : fourth double  
 pancake (GD n°4)

| UNI T  | REQUI RED | RESULT       | Date Initial | ACTIO N |
|--|-----------|--------------|--------------|---------|
| <b>After moulding (without mandrei) before brazing</b> |           |              |              |         |
| Ring test at 267V (2.17V/turn) and damping coefficient | /         | <b>999</b>   | AJ 19/01/15  |         |
| Period   | μs        | <b>968</b>   | AJ 19/01/15  |         |
| DC resistance value at 20° C (100mA)                   | mΩ        | <b>161.5</b> | AJ 19/01/15  |         |
| Inductance at 400hz                                    | mH        | <b>9.53</b>  | AJ 19/01/15  |         |



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**Drawing :** 318711-squelette-QPOLES-V115-revB  
**Revision :** A

|   | UNIT | REQUIREMENT         | RESULT                | Date Initial   | ACTION |
|---|------|---------------------|-----------------------|----------------|--------|
| <b>After moulding (without mandrei) before brazing</b>                |      |                     |                       |                |        |
| Insulation resistance during 1mn at 1500 Vdc between GD n°1 et GD n°2 | Ω    | ≥ 1.10 <sup>6</sup> | <b>186GΩ</b>          | AJ<br>19/01/15 |        |
| Insulation resistance during 1mn at 1500 Vdc between GD n°2 et GD n°3 | Ω    | ≥ 1.10 <sup>6</sup> | <b>157GΩ</b>          | AJ<br>19/01/15 |        |
| Insulation resistance during 1mn at 1500 Vdc between GD n°3 et GD n°4 | Ω    | ≥ 1.10 <sup>6</sup> | <b>103GΩ</b>          | AJ<br>19/01/15 |        |
| Dielectric test during 1mn at 1500Vdc between GD n°1 and GD n°2       | /    | <b>OK</b>           | <b>OK</b><br>I=8.25nA | AJ<br>19/01/15 |        |
| Dielectric test during 1mn at 1500Vdc between GD n°2 and GD n°3       | /    | <b>OK</b>           | <b>OK</b><br>I=9.77nA | AJ<br>19/01/15 |        |
| Dielectric test during 1mn at 1500Vdc between GD n°3 and GD n°4       | /    | <b>OK</b>           | <b>OK</b><br>I=15nA   | AJ<br>19/01/15 |        |

|   | UNIT | REQUIREMENT         | RESULT              | Date Initial   | ACTION |
|---|------|---------------------|---------------------|----------------|--------|
| <b>After moulding (without mandrei)</b>   |      |                     |                     |                |        |
| Insulation resistance during 1mn at 1500 Vdc between GD n°1, GD n°2, GD n°3, GD n°4 and all the spacers | Ω    | ≥ 1.10 <sup>6</sup> | <b>118GΩ</b>        | AJ<br>19/01/15 |        |
| Dielectric test during 1mn at 1500Vdc between GD n°1, GD n°2, GD n°3, GD n°4 and all the spacers        | /    | <b>OK</b>           | <b>OK</b><br>I=13nA | AJ<br>19/01/15 |        |



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