

2015-01-19 ELECTRICAL COIL CONTROL REPORT

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

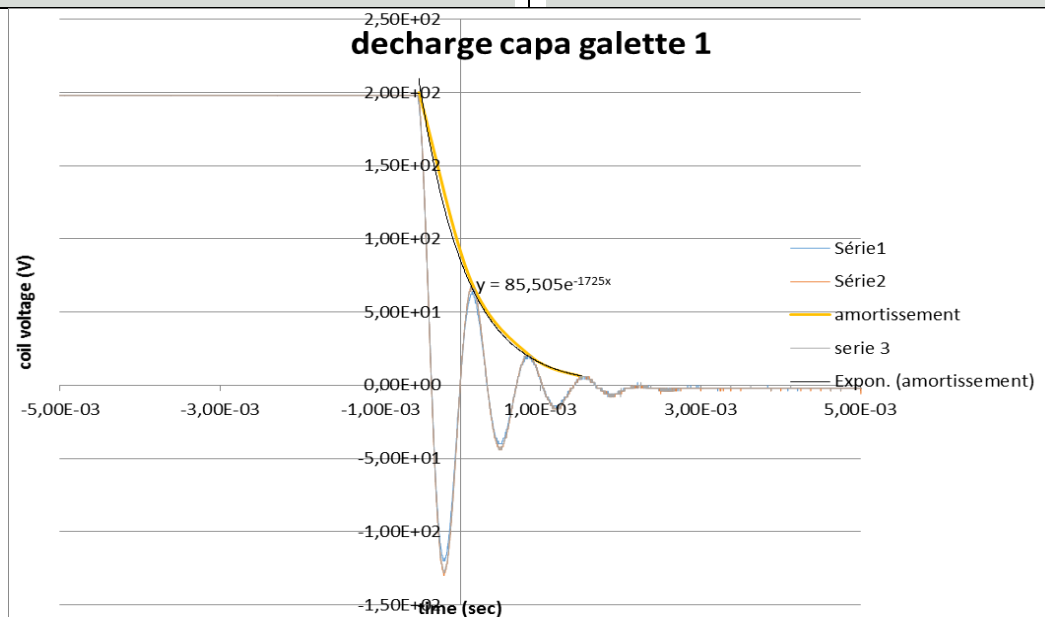
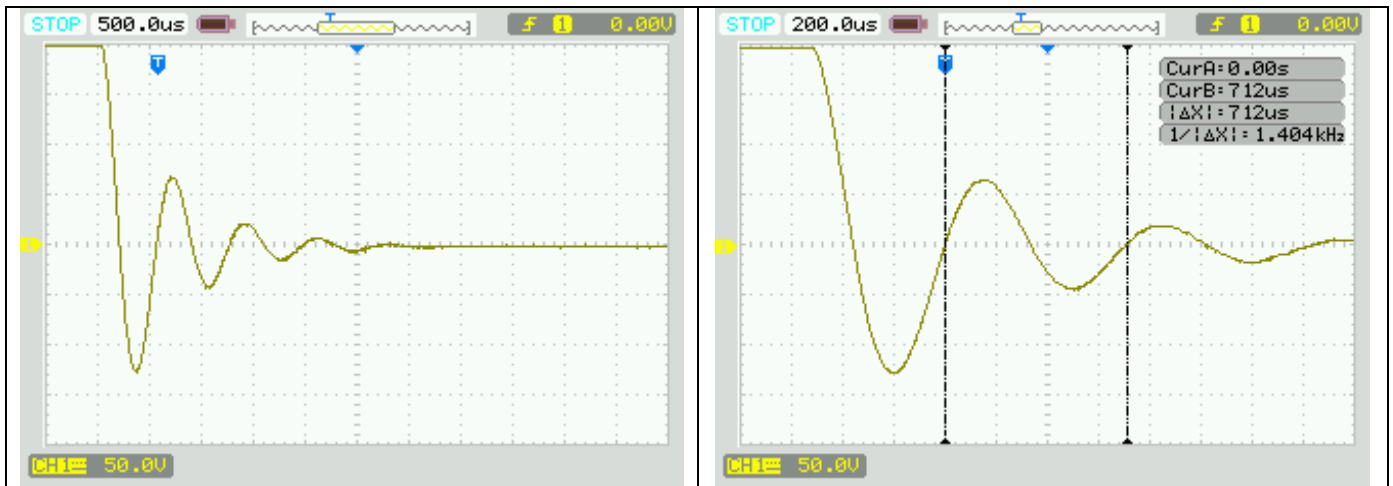
Designation :
 Coil C

Identification :
 Serial N° : first double
 pancake (GD n°1)

UNI T	REQUIR ED	RESULT	Date Initial	ACTIO N
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After moulding (without mandrei) before brazing

Ring test at 198V (2.17V/turn) and damping coefficient	/	1725	30/01/15 A.J	
Period	μs	712	30/01/15 A.J	
DC resistance value at 20° C (100mA)	mΩ	116.35	30/01/15 A.J	
Inductance at 100hz	mH	8.20	30/01/15 A.J	
Inductance at 400hz	mH	5.35	30/01/15 A.J	
Inductance at 1khz	mH	4.46	30/01/15 A.J	



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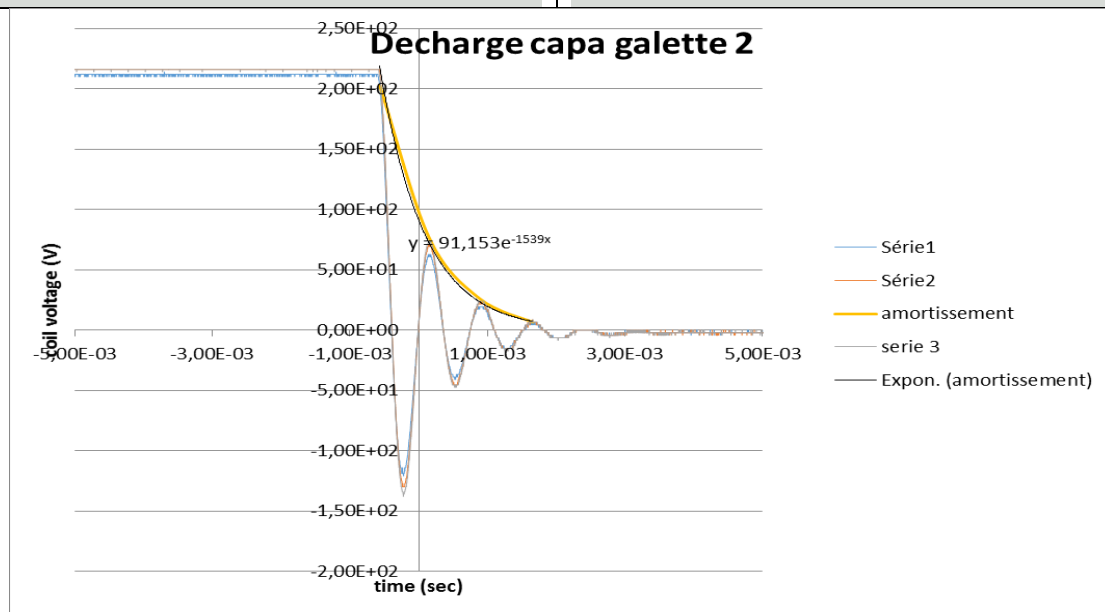
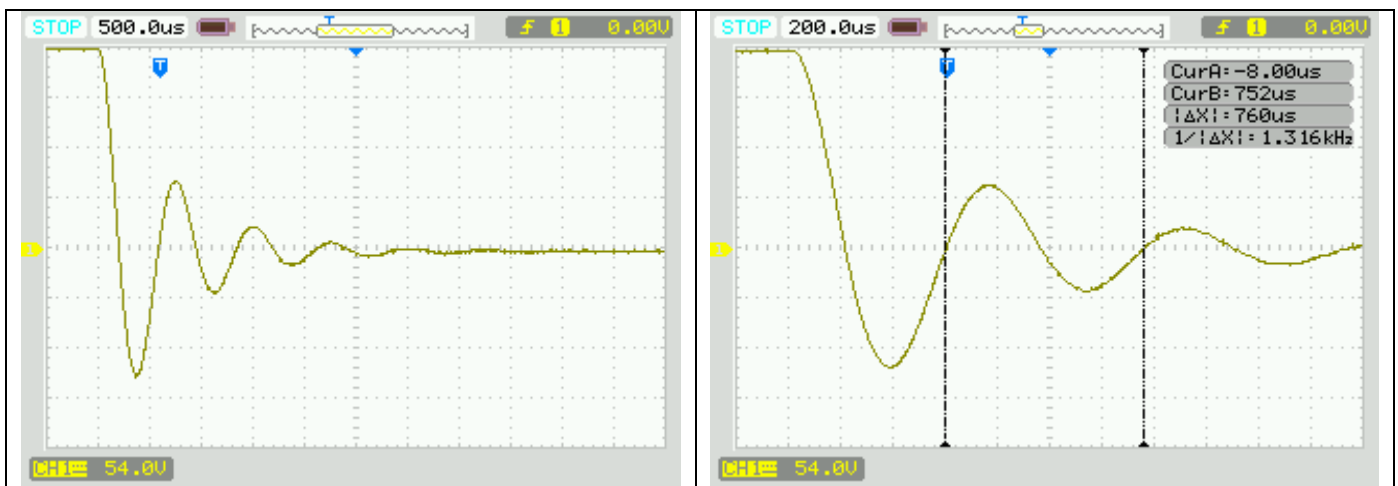
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Identification :
 Serial N° : second double
 pancake (GD n°2)

UNI T	REQUI RED	RESULT	Date Initial	ACTIO N
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After moulding (without mandrei) before brazing

Ring test at 220V (2.17V/turn) and damping coefficient	/	1539	30/01/15 A.J	
Period	μs	760	30/01/15 A.J	
DC resistance value at 20° C (100mA)	mΩ	130.87	30/01/15 A.J	
Inductance at 100hz	mH	9.40	30/01/15 A.J	
Inductance at 400hz	mH	6.01	30/01/15 A.J	
Inductance at 1khz	mH	5.10	30/01/15 A.J	



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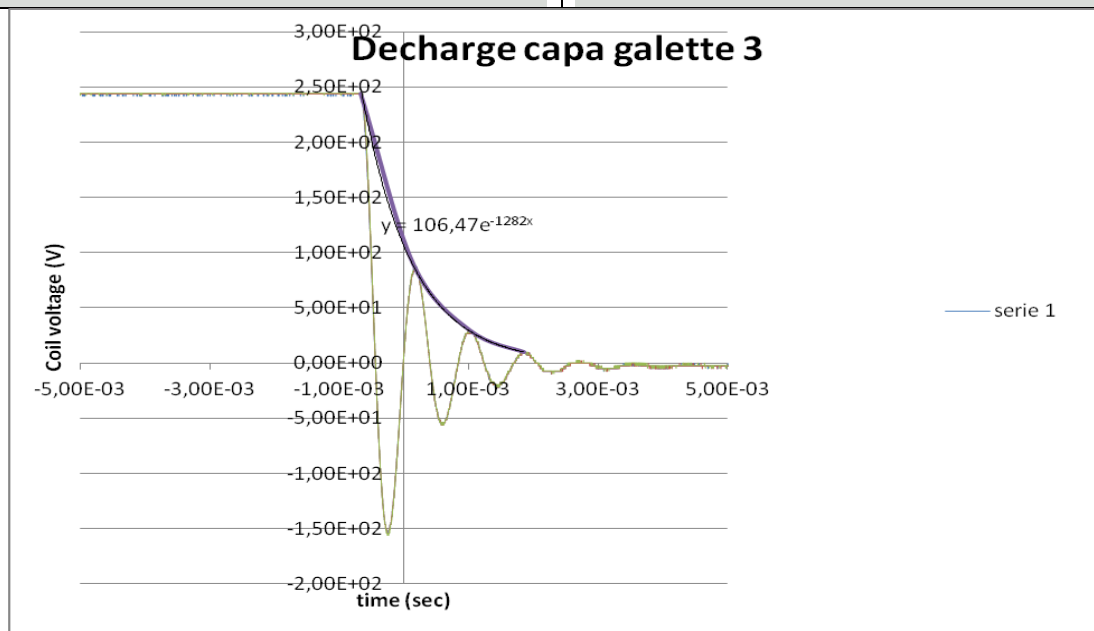
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Identification :
 Serial N° : third double
 pancake (GD n°3)

UNI T	REQUI RED	RESULT	Date Initial	ACTIO N
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After moulding (without mandrei) before brazing

Ring test at 243V (2.17V/turn) and damping coefficient	/	1282	30/01/15 A.J	
Period	μs	856	30/01/15 A.J	
DC resistance value at 20° C (100mA)	mΩ	146.44	30/01/15 A.J	
Inductance at 100hz	mH	11.57	30/01/15 A.J	
Inductance at 400hz	mH	7.43	30/01/15 A.J	
Inductance at 1khz	mH	6.39	30/01/15 A.J	



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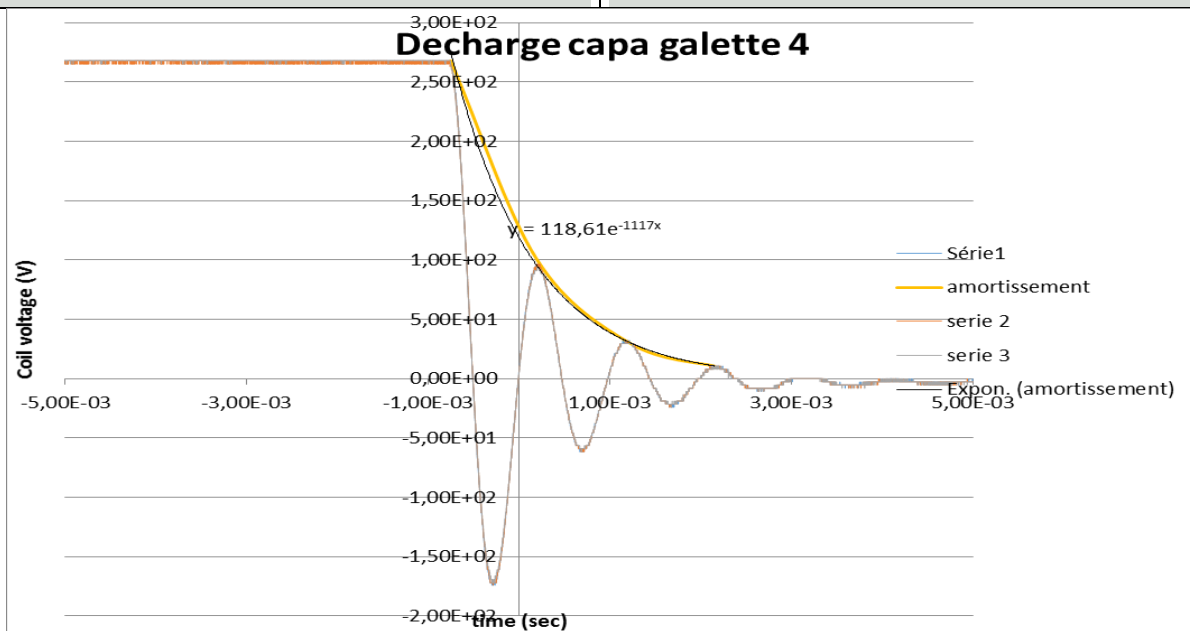
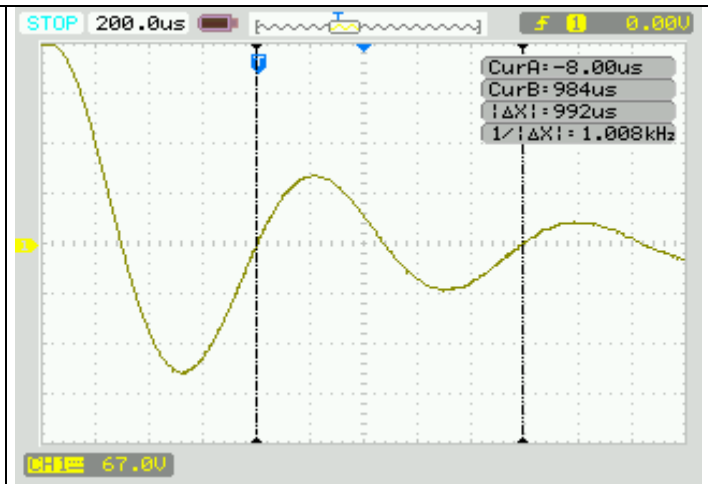
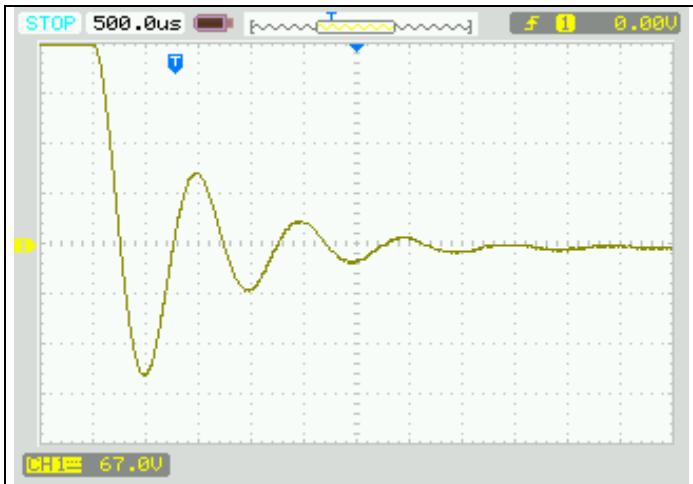
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Identification :
 Serial N° : fourth double
 pancake (GD n°4)

UNI T	REQUI RED	RESULT	Date Initial	ACTIO N
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After moulding (without mandrei) before brazing

Ring test at 267V (2.17V/turn) and damping coefficient	/	1117	30/01/15 A.J	
Period	μs	992	30/01/15 A.J	
DC resistance value at 20° C (100mA)	mΩ	162.94	30/01/15 A.J	
Inductance at 100hz	mH	15.17	30/01/15 A.J	
Inductance at 400hz	mH	9.95	30/01/15 A.J	
Inductance at 1khz	mH	8.46	30/01/15 A.J	



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	UNIT	REQUIREMENT	RESULT	Date Initial	ACTION
After moulding (without mandrei) before brazing					
Insulation resistance during 1mn at 1500 Vdc between GD n°1 et GD n°2	Ω	≥ 1.10 ⁶	153 GΩ	30/01/15 A.J	
Insulation resistance during 1mn at 1500 Vdc between GD n°2 et GD n°3	Ω	≥ 1.10 ⁶	131 GΩ	30/01/15 A.J	
Insulation resistance during 1mn at 1500 Vdc between GD n°3 et GD n°4	Ω	≥ 1.10 ⁶	357 GΩ	30/01/15 A.J	
Dielectric test during 1mn at 1500Vdc between GD n°1 and GD n°2	/	OK	OK I=10.1nA	30/01/15 A.J	
Dielectric test during 1mn at 1500Vdc between GD n°2 and GD n°3	/	OK	OK I=11.7nA	30/01/15 A.J	
Dielectric test during 1mn at 1500Vdc between GD n°3 and GD n°4	/	OK	OK I=4.3nA	30/01/15 A.J	

	UNIT	REQUIREMENT	RESULT	Date Initial	ACTION
After moulding (without mandrei)					
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 ⁶	89.2 GΩ	30/01/15 A.J	
Dielectric test during 1mn at 1500Vdc between GD n°1, GD n°2, GD n°3, GD n°4 and all the spacers	/	OK	OK I=17.2nA	30/01/15 A.J	

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