



**european space agency  
agence spatiale européenne**

## **Certificate of Qualification No. 98H**

**This is to certify that REL STPI, St Jean de la Ruelle, France has been qualified by ESA for the supply of Relays, Latching, Electromagnetic, based on Type EL 415 for use in ESA space programmes, according to ESCC Generic Specification 3602 and associated Detail Specification 3602/004 as recommended by the Space Components Steering Board.**

**This certificate is valid until April 2019.**

**Head of the Product Assurance  
and Safety Department**

A handwritten signature in blue ink, appearing to read 'R. J. ...'.

**Date  
30 August 2017**



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## **Certificate of Qualification No. 102H**

**This is to certify that REL STPI, St Jean de la Ruelle, France has been qualified by ESA for the supply of Relays, Non-Latching, Electromagnetic, Type T\*\* for use in ESA space programmes, according to ESCC Generic Specification 3601 and associated Detail Specification 3601/002 as recommended by the Space Components Steering Board.**

**This certificate is valid until October 2017.**

A handwritten signature in blue ink, appearing to be 'L. Loh'.

**Head of the Product Assurance  
and Safety Department**

**Date  
24 March 2016**





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## **Certificate of Qualification No. 88J**

**This is to certify that REL-STPI, saint Jean de la Ruelle, France has been qualified by ESA for the supply of Relay, Latching, Electromagnetic, Type TL for use in ESA space programmes, according to ESCC Generic Specification 3602 and associated Detail Specification 3602/002 as recommended by the Space Components Steering Board.**

**This certificate is valid until January 2018.**

A handwritten signature in blue ink, appearing to read 'W. Loh'.

**Head of the Product Assurance  
and Safety Department**

**Date  
27 October 2016**



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## **Certificate of Qualification No. 205E**

**This is to certify that REL STPI, St Jean de la Ruelle, France has been qualified by ESA for the supply of Relays, Non-Latching, Electromagnetic, based on Type E 215 for use in ESA space programmes, according to ESCC Generic Specification 3601 and associated Detail Specification 3601/007 as recommended by the Space Components Steering Board.**

**This certificate is valid until December 2016.**

A handwritten signature in black ink, appearing to be 'C. Bob'.

**Head of the Product Assurance  
and Safety Department**

**Date**

**27 January 2015**



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## **Certificate of Qualification No. 167 G**

**This is to certify that REL STPI, St Jean de la Ruelle, France has been qualified by ESA for the supply of Relays, Latching, Electromagnetic, based on Type EL 215 for use in ESA space programmes, according to ESCC Generic Specification 3602 and associated Detail Specification 3602/009 as recommended by the Space Components Steering Board.**

**This certificate is valid until October 2018.**

A handwritten signature in blue ink, appearing to read 'L. Loh'.

**Head of the Product Assurance  
and Safety Department**

**Date  
23 November 2016**





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## **Certificate of Qualification No. 98G**

This is to certify that REL STPI, St Jean de la Ruelle, France has been qualified by ESA for the supply of Relays, Latching, Electromagnetic, based on Type EL 415 for use in ESA space programmes, according to ESCC Generic Specification 3602 and associated Detail Specification 3602/004 as recommended by the Space Components Steering Board.

This certificate is valid until April 2017.

A handwritten signature in blue ink, appearing to read 'L. Vidin'.

**Head of the Product Assurance  
and Safety Department**

**Date**  
**24 March 2016**



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## **Certificate of Qualification No. 88J**

**This is to certify that REL-STPI, saint Jean de la Ruelle, France has been qualified by ESA for the supply of Relay, Latching, Electromagnetic, Type TL for use in ESA space programmes, according to ESCC Generic Specification 3602 and associated Detail Specification 3602/002 as recommended by the Space Components Steering Board.**

**This certificate is valid until January 2018.**

A handwritten signature in blue ink, appearing to read 'W. Loh'.

**Head of the Product Assurance  
and Safety Department**

**Date  
27 October 2016**





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## **Certificate of Qualification No. 167 G**

**This is to certify that REL STPI, St Jean de la Ruelle, France has been qualified by ESA for the supply of Relays, Latching, Electromagnetic, based on Type EL 215 for use in ESA space programmes, according to ESCC Generic Specification 3602 and associated Detail Specification 3602/009 as recommended by the Space Components Steering Board.**

**This certificate is valid until October 2018.**

A handwritten signature in blue ink, appearing to read 'L. Loh'.

**Head of the Product Assurance  
and Safety Department**

**Date  
23 November 2016**





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## **Certificate of Qualification No. 205F**

**This is to certify that REL STPI, St Jean de la Ruelle, France has been qualified by ESA for the supply of Relays, Non-Latching, Electromagnetic, based on Type E 215 for use in ESA space programmes, according to ESCC Generic Specification 3601 and associated Detail Specification 3601/007 as recommended by the Space Components Steering Board.**

**This certificate is valid until December 2018.**

A handwritten signature in blue ink, appearing to be 'J. C. J.' with a flourish.

**Head of the Product Assurance  
and Safety Department**

**Date  
19 June 2017**



## EPPL COMPONENT

Originator: null

Status: CLOSED

Company: REL STPI

Accepted: 2010-09-14

EPPL Part: 2

Group: RELAYS Subgroup: LATCHING

Part type: PHL50

Description: Contact Rating: 50A at 50 Vdc Contact Configuration: 1PDT  
Coil Voltage : 48, 28, 12 Vdc  
Size (max mm): 47.8 x 34.6 x 26.2  
Operating Temperature Range (°C): -65 to +125

Detail spec: 3602/014

Package: AS PER SPEC.

Manufacturer: REL STPI

### APPROVAL STATUS

Qualification: ESCC QPL

Other:

Highest screening level (MIL): ESA QPL

Evaluation programmes or other approvals:

Former space usage:

### PREVIOUS PROCUREMENT AND TEST DATA

Test data (Evaluation, Lot acceptance, DPA, MIL QCI/TCI, ...):

### RADIATION HARDNESS DATA

Total dose effects:

Displacement damage:

Single event effects (SEL/SEU/SET/SEFI/SEB/SEGR/others):

### REMARKS