

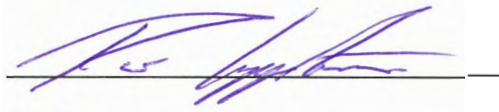
Licence for



CENELEC ENEC Agreement Licence Ref. No. SE/07115-4F

Product:	Filter unit for radio interference suppression
Type designation:	RTEN-5***, RTCN-5***, RTHN-5***, RTMN-5***, RTHC-5***, RTHB-5***
Test Report No.	1309718-01
Licence holder:	TDK-EPC Corporation 1-1, aza-Okinota, Kisakata-machi, Nikaho-shi, Akita 018-0193 JAPAN
The product complies with the standard(s):	EN 60939-1:2010 EN 60939-2:2005
Licence holder is authorized to use the mark with the following limitations:	-
Date of expiry:	31 December 2017

Additional information in Appendix

<i>Certification Body</i>	Intertek Semko AB, Product Certification	<i>Place</i>	Kista - Stockholm
<i>Signed</i>	 Par Eggström	<i>Date</i>	16 September 2013
<i>Internal reference:</i>	SUL		

This Licence is the result of testing a sample of the product submitted, in accordance with the provisions of the relevant specific standard. A copy of the Licence shall be filed in the place of manufacturing. The Licence has been established by a body which is a signatory to the ENEC Agreement ratified by CENELEC Marks Committee on 10 April 1992.

APPENDIX

CENELEC ENEC Agreement Licence Ref. No. SE/07115-4F

Test Report No. 1309718-01

Technical data

Type designation RTEN-5***
Rated voltage 3 x 500VAC
Frequency 50/60Hz
Rated current 80, 100, 150, 200, 250, 300A
Capacitance 6 x 4.7uF X2 + 2 x 68nF Y2
Inductance 3 x 0.64, 0.67, 0.42, 0.24, 0.11mH
Resistance 6 x 470kohm
Rated temperature 50°C
Climatic category 25/100/21
Trade mark TDK-Lambda

Type designation RTCN-5***
Rated voltage 3 x 500VAC
Frequency 50/60Hz
Rated current 80, 100, 150, 200, 250, 300A
Inductance 3 x 0.64, 0.67, 0.42, 0.24, 0.11mH
Rated temperature 50°C
Climatic category 25/100/21
Trade mark TDK-Lambda

Type designation RTHN-5***
Rated voltage 3 x 500VAC
Frequency 50/60Hz
Rated current 6, 10, 16, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300A
Capacitance 9 x 1.5, 2.2, 4.7uF X2 + 2 x 68nF Y2
Inductance 6 x 4.5, 2.1, 0.79, 1.6, 0.61, 0.91, 0.51, 0.36, 0.64, 0.67, 0.42, 0.24, 0.11mH
Resistance 9 x 0.47, 1Mohm
Rated temperature 50°C
Climatic category 25/100/21
Trade mark TDK-Lambda

16 September 2013

Type designation RTMN-5***
Rated voltage 3 x 500VAC
Frequency 50/60Hz
Rated current 6, 10, 16, 20, 30, 40, 50, 60A
Capacitance 9 x 1.5, 2.2, 4.7uF X2 + 2 x 68nF Y2
Inductance 6 x 2.9, 1.3, 0.51, 1.0, 0.39, 0.59, 0.33, 0.23mH
Resistance 9 x 0.47, 1Mohm
Rated temperature 50°C
Climatic category 25/100/21
Trade mark TDK-Lambda

Type designation RTHC-5***
Rated voltage 3 x 500VAC
Frequency 50/60Hz
Rated current 6, 10, 16, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300A
Capacitance 9 x 1.5, 2.2, 4.7uF X2 + 2 x 68nF Y2
Inductance 6 x 4.5, 2.1, 0.79, 1.6, 0.61, 0.91, 0.51, 0.36, 0.64, 0.67, 0.42, 0.24, 0.11mH
Resistance 9 x 0.47, 1Mohm
Rated temperature 50°C
Climatic category 25/100/21
Trade mark TDK-Lambda

Type designation RTHB-5***
Rated voltage 3 x 500VAC
Frequency 50/60Hz
Rated current 6, 10, 16, 20, 30, 40, 50, 60, 80, 100, 150A
Capacitance 9 x 1.5, 2.2, 4.7uF X2 + 2 x 68nF Y2
Inductance 6 x 4.5, 2.1, 0.79, 1.6, 0.61, 0.91, 0.51, 0.36, 0.64, 0.67mH
Resistance 9 x 0.47, 1Mohm
Rated temperature 50°C
Climatic category 25/100/21
Trade mark TDK-Lambda

Capacitors included:

X2
Okaya type LE

Y2
Okaya type YF

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Alternative design:

RTEN-5080	3x80A	3x0.64mH
RTEN-5100	3x100A	3x0.64mH
RTEN-5150	3x150A	3x0.67mH
RTEN-5200	3x200A	3x0.42mH
RTEN-5250	3x250A	3x0.24mH
RTEN-5300	3x300A	3x0.11mH

RTCN-5080	3x80A	3x0.64mH
RTCN-5100	3x100A	3x0.64mH
RTCN-5150	3x150A	3x0.67mH
RTCN-5200	3x200A	3x0.42mH
RTCN-5250	3x250A	3x0.24mH
RTCN-5300	3x300A	3x0.11mH

RTHN-5006	3x6A	6x4.5mH
RTHN-5010	3x10A	6x2.1mH
RTHN-5016	3x16A	6x0.79mH
RTHN-5020	3x20A	6x1.6mH
RTHN-5030	3x30A	6x0.61mH
RTHN-5040	3x40A	6x0.91mH
RTHN-5050	3x50A	6x0.51mH
RTHN-5060	3x60A	6x0.36mH
RTHN-5080	3x80A	6x0.64mH
RTHN-5100	3x100A	6x0.64mH
RTHN-5150	3x150A	6x0.67mH
RTHN-5200	3x200A	6x0.42mH
RTHN-5250	3x250A	6x0.24mH
RTHN-5300	3x300A	6x0.11mH

RTMN-5006	3x6A	6x2.9mH
RTMN-5010	3x10A	6x1.3mH
RTMN-5016	3x16A	6x0.51mH
RTMN-5020	3x20A	6x1.0mH
RTMN-5030	3x30A	6x0.39mH
RTMN-5040	3x40A	6x0.59mH
RTMN-5050	3x50A	6x0.33mH
RTMN-5060	3x60A	6x0.23mH

RTHC-5006	3x6A	6x4.5mH
RTHC-5010	3x10A	6x2.1mH
RTHC-5016	3x16A	6x0.79mH
RTHC-5020	3x20A	6x1.6mH
RTHC-5030	3x30A	6x0.61mH
RTHC-5040	3x40A	6x0.91mH
RTHC-5050	3x50A	6x0.51mH
RTHC-5060	3x60A	6x0.36mH
RTHC-5080	3x80A	6x0.64mH
RTHC-5100	3x100A	6x0.64mH

16 September 2013

Intertek Semko AB

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 Telephone +46 8 750 00 00, Fax +46 8 750 60 30, www.sweden.intertek-etlsemko.com
 Registered in Sweden: No SE556024059901, Registered office: As address

RTHC-5150	3x150A	6x0.67mH
RTHC-5200	3x200A	6x0.42mH
RTHC-5250	3x250A	6x0.24mH
RTHC-5300	3x300A	6x0.11mH

RTHB-5006	3x6A	6x4.5mH
RTHB-5010	3x10A	6x2.1mH
RTHB-5016	3x16A	6x0.79mH
RTHB-5020	3x20A	6x1.6mH
RTHB-5030	3x30A	6x0.61mH
RTHB-5040	3x40A	6x0.91mH
RTHB-5050	3x50A	6x0.51mH
RTHB-5060	3x60A	6x0.36mH
RTHB-5080	3x80A	6x0.64mH
RTHB-5100	3x100A	6x0.64mH
RTHB-5150	3x150A	6x0.67mH

Manufacturing site(s):

EPCOS (Zhuhai) Co., Ltd
Nanxiang Road, Hongqi Town
Zhuhai City, Guangdong Province
CHINA

Guangxi Wuzhou City Pingzhou
Electronics Co., Ltd.
No. 268, Xinan Rd., Longxu Town
Cangwu Zone, 543100 Wuzhou
Guangxi Province
CHINA

This certificate replaces previously issued ref. No. SE/07115-4E dated 17 June 2007.
A new certificate has been issued on account of updated standard and added manufacturing site.

16 September 2013

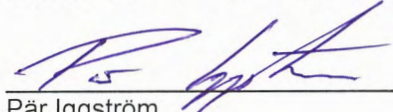
Licence for



CENELEC ENEC Agreement Licence Ref. No. SE/07115-5E

Product:	Filter unit for radio interference suppression
Type designation:	RTEN-50**, RTAN-50**, RTCN-50**, RTEN-2***, RTHN-2***
Test Report No.	1302905-01 + 1308379-01
Licence holder:	TDK-EPC Corporation 1-1, aza-Okinota, Kisakata-machi, Nikaho-shi, Akita 018-0193 JAPAN
The product complies with the standard(s):	EN 60939-1:2010 EN 60939-2:2005
Licence holder is authorized to use the mark with the following limitations:	-
Date of expiry:	31 December 2017

Additional information in Appendix

<i>Certification Body</i>	Intertek Semko AB, Product Certification	<i>Place</i>	Kista - Stockholm
<i>Signed</i>	 Pär Iggström	<i>Date</i>	1 July 2013
<i>Internal reference:</i>	SUL		

This Licence is the result of testing a sample of the product submitted, in accordance with the provisions of the relevant specific standard. A copy of the Licence shall be filed in the place of manufacturing. The Licence has been established by a body which is a signatory to the ENEC Agreement ratified by CENELEC Marks Committee on 10 April 1992.

APPENDIX

CENELEC ENEC Agreement Licence Ref. No. SE/07115-5E

Test Report No. 1302905-01 + 1308379-01

Technical data

Type designation RTEN-50**
Rated voltage 3 x 500VAC
Frequency 50/60Hz
Rated current 6, 10, 16, 20, 30, 40, 50, 60A
Capacitance 6 x 1.0, 1.5, 3.3uF X2 + 2 x 68nF Y2
Inductance 3 x 4.5, 2.1, 1.6, 0.91, 0.79, 0.61, 0.51, 0.36mH
Resistance 6 x 0.47, 1Mohm
Rated temperature 50°C
Climatic category 25/100/21
Trade mark TDK-Lambda

Type designation RTAN-50**
Rated voltage 3 x 500VAC
Frequency 50/60Hz
Rated current 6, 10, 16, 20, 30, 40, 50, 60A
Capacitance 6 x 1.0, 1.5, 3.3uF X2 + 2 x 68nF Y2
Inductance 3 x 2.9, 1.3, 1.0, 0.59, 0.51, 0.39, 0.33, 0.23mH
Resistance 6 x 0.47, 1Mohm
Rated temperature 50°C
Climatic category 25/100/21
Trade mark TDK-Lambda

Type designation RTCN-50**
Rated voltage 3 x 500VAC
Frequency 50/60Hz
Rated current 6, 10, 16, 20, 30, 40, 50, 60A
Inductance 3 x 4.5, 2.1, 1.6, 0.91, 0.79, 0.61, 0.51, 0.36mH
Rated temperature 50°C
Climatic category 25/100/21
Trade mark TDK-Lambda

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Capacitors included:

X2
Okaya type LE

Y2
Okaya type YF

Alternative design:

RTEN-5006	3x6A	3x4.5mH
RTEN-5010	3x10A	3x2.1mH
RTEN-5016	3x16A	3x0.79mH
RTEN-5020	3x20A	3x1.6mH
RTEN-5030	3x30A	3x0.61mH
RTEN-5040	3x40A	3x0.91mH
RTEN-5050	3x50A	3x0.51mH
RTEN-5060	3x60A	3x0.36mH

RTAN-5006	3x6A	3x2.9mH
RTAN-5010	3x10A	3x1.3mH
RTAN-5016	3x16A	3x0.51mH
RTAN-5020	3x20A	3x1.0mH
RTAN-5030	3x30A	3x0.39mH
RTAN-5040	3x40A	3x0.59mH
RTAN-5050	3x50A	3x0.33mH
RTAN-5060	3x60A	3x0.23mH

RTCN-5006	3x6A	3x4.5mH
RTCN-5010	3x10A	3x2.1mH
RTCN-5016	3x16A	3x0.79mH
RTCN-5020	3x20A	3x1.6mH
RTCN-5030	3x30A	3x0.61mH
RTCN-5040	3x40A	3x0.91mH
RTCN-5050	3x50A	3x0.51mH
RTCN-5060	3x60A	3x0.36mH

<i>Type designation</i>	RTEN-2***
<i>Rated voltage</i>	3 x 250VAC
<i>Frequency</i>	50/60Hz
<i>Rated current</i>	6, 10, 16, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300A
<i>Capacitance</i>	6 x 1.0, 1.5, 3.3, 4.7uF X2 + 10nF Y2
<i>Inductance</i>	3 x 4.5, 2.1, 0.8, 1.6, 0.61, 0.91, 0.51, 0.36, 0.64, 0.67, 0.42, 0.24, 0.11mH
<i>Resistance</i>	6 x 470, 1000kohm
<i>Rated temperature</i>	50°C
<i>Climatic category</i>	25/85/21
<i>Trade mark</i>	TDK-Lambda

1 July 2013

Type designation	RTHN-2***
Rated voltage	3 x 250VAC
Frequency	50/60Hz
Rated current	6, 10, 16, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300A
Capacitance	9 x 1.0uF X2 + 3 x 2200pF Y2 + 3 x 1500pF Y2
Inductance	6 x 4.5, 2.1, 0.8, 1.6, 0.61, 0.91, 0.51, 0.36, 0.64, 0.67, 0.42, 0.24, 0.11mH
Resistance	9 x 1Mohm
Rated temperature	50°C
Climatic category	25/85/21
Trade mark	TDK-Lambda

Capacitors included:

X2	Y2
Okaya type LE-K, LE-MX or Pilkor type PCX2 339 or Panasonic type ECQUA	TDK-EPC type CS or Okaya type YF or Pilkor type PCY2 130

Alternative design:

RTEN-2006	3 x 6A	3 x 4.5mH	6 x 1uF	6 x 1Mohm
RTEN-2010	3 x 10A	3 x 2.1mH	6 x 1uF	6 x 1Mohm
RTEN-2016	3 x 16A	3 x 0.8mH	6 x 1uF	6 x 1Mohm
RTEN-2020	3 x 20A	3 x 1.6mH	6 x 1.5uF	6 x 1Mohm
RTEN-2030	3 x 30A	3 x 0.61mH	6 x 1.5uF	6 x 1Mohm
RTEN-2040	3 x 40A	3 x 0.91mH	6 x 3.3uF	6 x 0.47Mohm
RTEN-2050	3 x 50A	3 x 0.51mH	6 x 3.3uF	6 x 0.47Mohm
RTEN-2060	3 x 60A	3 x 0.36mH	6 x 3.3uF	6 x 0.47Mohm
RTEN-2080	3 x 80A	3 x 0.64mH	6 x 4.7uF	6 x 0.47Mohm
RTEN-2100	3 x 100A	3 x 0.64mH	6 x 4.7uF	6 x 0.47Mohm
RTEN-2150	3 x 150A	3 x 0.67mH	6 x 4.7uF	6 x 0.47Mohm
RTEN-2200	3 x 200A	3 x 0.42mH	6 x 4.7uF	6 x 0.47Mohm
RTEN-2250	3 x 250A	3 x 0.24mH	6 x 4.7uF	6 x 0.47Mohm
RTEN-2300	3 x 300A	3 x 0.11mH	6 x 4.7uF	6 x 0.47Mohm

RTHN-2006	3 x 6A	6 x 4.5mH
RTHN-2010	3 x 10A	6 x 2.1mH
RTHN-2016	3 x 16A	6 x 0.8mH
RTHN-2020	3 x 20A	6 x 1.6mH
RTHN-2030	3 x 30A	6 x 0.61mH
RTHN-2040	3 x 40A	6 x 0.91mH
RTHN-2050	3 x 50A	6 x 0.51mH
RTHN-2060	3 x 60A	6 x 0.36mH
RTHN-2080	3 x 80A	6 x 0.64mH
RTHN-2100	3 x 100A	6 x 0.64mH
RTHN-2150	3 x 150A	6 x 0.67mH
RTHN-2200	3 x 200A	6 x 0.42mH
RTHN-2250	3 x 250A	6 x 0.24mH
RTHN-2300	3 x 300A	6 x 0.11mH

1 July 2013

Manufacturing site(s):

EPCOS (Zhuhai) Co., Ltd
Nanxiang Road, Hongqi Town
Zhuhai City, Guangdong Province
CHINA

Guangxi Wuzhou City Pingzhou
Electronics Co., Ltd.
No. 268, Xinan Rd., Longxu Town
Cangwu Zone, 543100 Wuzhou
Guangxi Province
CHINA

This certificate replaces previously issued ref. No. SE/07115-5D dated 17 June 2010 and SE/07115-12 dated 17 June 2013. A new certificate has been issued on account of added manufacturing site, updated standard and added type RTEN-2*** and RTHN-2***.

1 July 2013

Intertek Semko AB

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