



UL 1449 certificate



Northbrook, Illinois • (847) 272-8800
Malville, New York • (631) 271-6200
Santa Clara, California • (408) 985-2400
Research Triangle Park,
North Carolina • (919) 549-1400
Camas, Washington • (360) 817-6500

THINKING ELECTRONIC INDUSTRIAL CO LTD
MS A CHANG
21 LANE 373 MINTSU 1ST RD
SAN-MING DIST
KAOHSIUNG 80759 TAIWAN

RE: Project Number(s) - 03NB91831

Your most recent Certification is shown below. You may also view this information, or a portion of this information (depending on the product category), on UL's Online Certifications Directory at www.ul.com/database. Please review the text and contact the Conformity Assessment Services staff member who handled your project if revisions are required. For instructions on placing an order for this information in a 3 x 5-inch format, you may refer to the enclosed order form for UL Card Service.

XUHT2

February 3, 2004

Transient Voltage Surge Suppressors - Component

THINKING ELECTRONIC INDUSTRIAL CO LTD
21 LANE 373 MINTSU 1ST RD SAN-MING DIST, KAOHSIUNG
80759 TAIWAN

E173642

Transient voltage surge suppressors. Series TVD05, followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471; Series TVD07, followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821; Series TVD10, followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821; Series TVD14, followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112; Series TVD20, followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112.

Series TVR followed by 05D, followed by 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, followed by K, 07D followed by 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, followed by K, 10D followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112, followed by K, 14D followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112, followed by K, 20D followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112, followed by K.

Varistors. Series TVR followed by 05, followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821; Series 07, followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821; Series 10 followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112; Series 14, followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112; Series 20, followed by 500, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112.

Series TVR05 followed by 180, 220, 270, 330, 390, 470, 560, 680; Series TVR07 followed by 180, 220, 270, 330, 390, 470, 560, 680; Series TVR10 followed by 180, 220, 270, 330, 390, 470, 560, 680; Series TVR14 followed by 180, 220, 270, 330, 390, 470, 560, 680; Series TVR20 followed by 180, 220, 270, 330, 390, 470, 560, 680; Series TVR25 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102; Series TVA25 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102; Series TVR32 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, 122; Series TVA32 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, 122.

Series TVR32, followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122 followed by KQ; Series TVR34 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122 followed by KQ; Series TVA34 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, 122.

Series TVR40, followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122 followed by KQ; Series TVR40 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, 122; Series TVR40, followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122 followed by KQ; Series TVA40 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, 122; Series TVR34, followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122 followed by KT; Series TVA34 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, 122.

Model TVA0602L

Marking: Company name or trademark  or tradename "TVR" and series designation on each part or smallest package.

665856001

Page 1 of 2

A not-for-profit organization
dedicated to public safety and
committed to quality service

UL 1449 certificate

See General Information Preceding These Recognitions
For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

UL 1449 certificate



美商優力安全認證有限公司台灣分公司
UL International, L.L.C., Taiwan Branch
台北市 112 北投區 六東路 260 號 1 樓
1st Fl 260 Da-Yeh Road Pailou Taipei City Taiwan 112
tel: 886-2-2896-7790 fax: 886-2-2891-7814
http://www.ul.com.tw

NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

September 15, 2005

Thinking Electronic Industrial Co Ltd
21 Lane 373 Mintsu 1st Rd
San-Ming Dist
Kaohsiung 80759
Taiwan

Fax number: 07-5570560
E-mail: alice@thinking.com.tw

Reference: File E173642 Project 05CA34246 MS. CHANG
Varistors, Models TVR07181-D, TVR07201-D, TVR07221-D, TVR07241-D, TVR07271-D,
TVR07301-D, TVR07331-D, TVR07361-D, TVR07391-D, TVR07431-D, TVR07471-D,
TVR07511-D, TVR07561-D, TVR07621-D, TVR07681-D, TVR07751-D, TVR07821-D,
TVR10181-D, TVR10201-D, TVR10221-D, TVR10241-D, TVR10271-D, TVR10301-D,
TVR10331-D, TVR10361-D, TVR10391-D, TVR10431-D, TVR10471-D, TVR10511-D,
TVR10561-D, TVR10621-D, TVR10681-D, TVR10751-D, TVR10821-D, TVR10911-D,
TVR10102-D, TVR10112-D, TVR14181-D, TVR14201-D, TVR14221-D, TVR14241-D,
TVR14271-D, TVR14301-D, TVR14331-D, TVR14361-D, TVR14391-D, TVR14431-D,
TVR14471-D, TVR14511-D, TVR14561-D, TVR14621-D, TVR14681-D, TVR14751-D,
TVR14821-D, TVR14911-D, TVR14102-D, TVR14112-D, TVR20181-D, TVR20201-D,
TVR20221-D, TVR20241-D, TVR20271-D, TVR20301-D, TVR20331-D, TVR20361-D,
TVR20391-D, TVR20431-D, TVR20471-D, TVR20511-D, TVR20561-D, TVR20621-D,
TVR20681-D, TVR20751-D, TVR20821-D, TVR20911-D, TVR20102-D, TVR20112-D for USR
and CNR Investigation.

Dear Ms. Chang,

Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc.

UL's investigation of your product has been completed under the above project number and the subject product was determined to comply with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Recognized Marking and/or Recognized Component Mark only at the factory under UL's Follow-Up Service Program to the subject product, which are constructed as described below:

Identical to the subject models, which were submitted to UL for this investigation. The UL Records covering the product will be in the Follow-Up Services Procedure, File E173642, Volume 1.

This authorization applies only to the address on this letter.

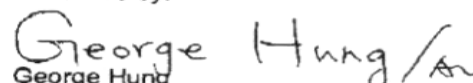
This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn.

Sincerely,


Stephen Wang
Engineer
UL International, L.L.C., Taiwan Branch
Tel: 886-2-2896-7790
Fax: 886-2-2896-6140
E-mail: stephen.wang@tw.ul.com

Reviewed by:


George Hung
Project Engineer
UL International, L.L.C., Taiwan Branch

An independent organization working for a safer world with integrity, precision and knowledge.



UL 1414 certificate**Northbrook Division**

333 Plingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800
fax: 1 847 272 8129
Customer service: 1 877 854 3577

THINKING ELECTRONIC INDUSTRIAL CO LTD
MS A CHANG
21 LANE 373 MINTSU 1ST RD
SAN-MING DIST
KAOHSIUNG 80759 TAIWAN

Your most recent Certification is shown below. You may also view this information, or a portion of this information (depending on the product category), on UL's Online Certifications Directory at www.ul.com/database. Please review the text and contact the Conformity Assessment Services staff member who handled your project if revisions are required. For instructions on placing an order for this information in a 3 x 5-inch format, you may refer to the enclosed order form for UL Card Service.

POWX2 November 25, 2003
Across-the-line Capacitors, Antenna-coupling and Line-bypass Components

THINKING ELECTRONIC INDUSTRIAL CO LTD
21 LANE 373 MINTSU 1ST RD SAN-MING DIST, KAOHSIUNG
80759 TAIWAN

E186499

Type	V Rating	Capacitance Rating or Range	Series Resistance Rating or Range	Spark GAP
Across-the-line component.				
Types(+) 201, 221, 241, 271, 301, 331, 361	125 V, ac	Varistor	—	—
Types(+) 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 102, 112	250 V, ac	Varistor	—	—
Types (#) 201&B&, 221&B&, 241&B&, 271&B&, 361&B&	125 V, ac	Varistor	—	—
Types (#) 391&B&, 431&B&, 471&B&, 511&B&, 561&B&, 621&B&, 681&B&, 751&B&, 781&B&, 821&B&, 911&B&, 951&B&, 102&B&, 112&B&, 122&B&	250 V, ac	Varistor	—	—
Types (##) 201&G&, 221&G&, 241&G&, 271&G&, 361&G&	125 V, ac	Varistor	—	—
Types (##) 391&G&, 431&G&, 471&G&, 511&G&, 561&G&, 621&G&, 681&G&, 751&G&, 781&G&, 821&G&, 911&G&, 951&G&, 102&G&, 112&G&, 122&G&	250 V, ac	Varistor	—	—
Types (###) 201&Q&, 221&Q&,	125 V, ac	Varistor	—	—

An independent organization working for a safer world with integrity, precision and knowledge.

665856001



UL 1414 certificate

Type	V Rating	Capacitance Rating or Range	Series Resistance Rating or Range	Spark GAP
241&Q&, 271&Q&, 361&Q& Types (###) 391&Q&, 431&Q&, 471&Q&, 511&Q&, 561&Q&, 621&Q&, 681&Q&, 751&Q&, 781&Q&, 821&Q&, 911&Q&, 951&Q&, 102&Q&, 112&Q&, 122&Q&, 182&Q& Types 34391&T&, 34431&T&, 34471&T&, 34511&T&, 34561&T&, 34621&T&, 34681&T&, 34751&T&, 34781&T&, 34821&T&, 34911&T&, 34951&T&, 34102&T&, 34112&T&, 34122&T&	250 V, ac	Varistor	—	—
	250 V, ac	Varistor	—	—



(+)-Provided with optional prefixes 07, 10, 14, 20.

(#) - Type designation is preceded by 25 or 32.

(##) - Type designation is preceded by 25, 32, or 40.

(###) - Type designation is preceded by 32, 34, 40, or 60.

& - Any alphanumeric character designating voltage tolerance and terminal style.

Marking: Company name or trademarks  or  or tradenames "TVR" or "TVD" or "TVA" and type designation on product.

See General Information Preceding These Recognitions

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

cUL certificate**Underwriters
Laboratories Inc.****Northbrook Division**333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800
fax: 1 847 272 8129
Customer service: 1 877 854 3577THINKING ELECTRONIC INDUSTRIAL CO LTD
MS A CHANG
21 LANE 373 MINTSU 1ST RD
SAN-MING DIST
KAOHSIUNG 80759 TAIWAN

RE: Project Number(s) - 03SC09758

Your most recent Certification is shown below. You may also view this information, or a portion of this information (depending on the product category), on UL's Online Certifications Directory at www.ul.com/database. Please review the text and contact the Conformity Assessment Services staff member who handled your project if revisions are required. For instructions on placing an order for this information in a 3 x 5-inch format, you may refer to the enclosed order form for UL Card Service.

XUHT8 January 19, 2004
Transient Voltage Surge Suppressors Certified for Canada - ComponentTHINKING ELECTRONIC INDUSTRIAL CO LTD
21 LANE 373 MINTSU 1ST RD SAN-MING DIST, KAOHSIUNG
80759 TAIWAN

E173642

Varistors, Models TVR14201, TVR14471, TVR20201, TVR20471, TVD14201, TVD14471, TVD20471, TVD20201.

Marking: Company name, model designation and Recognized Component Mark for Canada, .

See General Information Preceding These Recognitions

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.



cUL certificateUnderwriters
Laboratories Inc.**XUHT8.E173642****Transient Voltage Surge Suppressors Certified for Canada -
Component**[Page Bottom](#)[Questions?](#)[Previous Page](#)**Transient Voltage Surge Suppressors Certified for Canada -
Component****Guide Information****THINKING ELECTRONIC INDUSTRIAL CO LTD****E173642**

21 LANE 373 MINTSU 1ST RD

SAN-MING DIST

KAOHSIUNG 80759, TAIWAN

Transient voltage surge suppressors, Series 05 followed by 560, 680, 820, 181, 101, 121, 151, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471; TVR 07 followed by 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821; TVR 10 followed by 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112; TVR 14 followed by 560, 680, 820, 101, 121, 151, 181, 221, 241, 271, 301, 331, 361, 391, 431, 511, 561, 621, 681, 751, 821, 911, 102, 112; TVR 20 followed by 560, 680, 820, 101, 121, 151, 181, 221, 241, 271, 301, 331, 361, 391, 431, 511, 561, 621, 681, 751, 821, 911, 102, 112; TVD 05 followed by 560, 680, 820, 181, 101, 121, 151, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471; TVD 07 followed by 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821; TVD 10 followed by 560, 680, 820, 101, 121, 151, 181, 201, 221, 241, 271, 301, 331, 361, 391, 431, 471, 511, 561, 621, 681, 751, 821, 911, 102, 112; TVD 14 followed by 560, 680, 820, 101, 121, 151, 181, 221, 241, 271, 301, 331, 361, 391, 431, 511, 561, 621, 681, 751, 821, 911, 102, 112; TVD 20 followed by 560, 680, 820, 101, 121, 151, 181, 221, 241, 271, 301, 331, 361, 391, 431, 511, 561, 621, 681, 751, 821, 911, 102, 112. A letter "D" may be provided following TVD or TVR.

Varistors, TVD05 followed by 330, 390, 470, 560, or 680; TVD07 followed by 180, 220, 270, 330, 390, 470, 560, or 680; TVD10 followed by 180, 220, 270, 330, 390, 470, 560, or 680; TVD20 followed by 180, 220, 270, 330, 390, 470, 560, or 680; TVR05 followed by 330, 390, 470, 560, or 680; TVR07 followed by 180, 220, 270, 330, 390, 470, 560, or 680; TVR10 followed by 180, 220, 270, 330, 390, 470, 560, or 680; TVR14 followed by 180, 220, 270, 330, 390, 470, 560, or 680; TVR20 followed by 180, 220, 270, 330, 390, 470, 560, or 680; TVR25 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, or 102; TVA25 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, or 102; TVR32 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122; TVA32 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122.

cUL certificate

Varistors, TVR32 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122 followed by KQ; TVR34 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122 followed by KQ; TVA34 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122; TVR40 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122 followed by KQ; TVR40 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122; TVA40 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122 followed by KG; TVA40 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122. TVR34 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122 followed by KT; TVA34 followed by 201, 221, 241, 271, 361, 391, 431, 471, 511, 561, 621, 681, 751, 781, 821, 911, 951, 102, 112, or 122 followed by T.

Model TVA60621.

Marking: Company name, model designation and Recognized Component Mark for Canada,



[Page Top](#)

[Notice of Disclaimer](#)

[Questions?](#)

[Previous Page](#)

[UL Listed and Classified
Products](#)

[UL Recognized
Components](#)

[Products Certified
for Canada](#)

This page and all contents are Copyright © 2004 by Underwriters Laboratories Inc.®

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Designs and/or Listings (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc." must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "Copyright © 2004 Underwriters Laboratories Inc.®"

cUL certificate



美商優力安全認證有限公司台灣分公司
UL International, L.L.C., Taiwan Branch
台北市 112 北投區大業路 260 號 1 樓
1st Fl 260 Da-Yeh Road Pailou Taipei City Taiwan 112
tel: 886-2-2896-7790 fax: 886-2-2891-7814
http://www.ul.com.tw

NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

September 15, 2005

Thinking Electronic Industrial Co Ltd
21 Lane 373 Minsu 1st Rd
San-Ming Dist
Kaohsiung 80759
Taiwan

Fax number: 07-5570560
E-mail: alice@thinking.com.tw

Reference: File E173642 Project 05CA34246 MS. CHANG
Varistors, Models TVR07181-D, TVR07201-D, TVR07221-D, TVR07241-D, TVR07271-D,
TVR07301-D, TVR07331-D, TVR07361-D, TVR07391-D, TVR07431-D, TVR07471-D,
TVR07511-D, TVR07561-D, TVR07621-D, TVR07681-D, TVR07751-D, TVR07821-D,
TVR10181-D, TVR10201-D, TVR10221-D, TVR10241-D, TVR10271-D, TVR10301-D,
TVR10331-D, TVR10361-D, TVR10391-D, TVR10431-D, TVR10471-D, TVR10511-D,
TVR10561-D, TVR10621-D, TVR10681-D, TVR10751-D, TVR10821-D, TVR10911-D,
TVR10102-D, TVR10112-D, TVR14181-D, TVR14201-D, TVR14221-D, TVR14241-D,
TVR14271-D, TVR14301-D, TVR14331-D, TVR14361-D, TVR14391-D, TVR14431-D,
TVR14471-D, TVR14511-D, TVR14561-D, TVR14621-D, TVR14681-D, TVR14751-D,
TVR14821-D, TVR14911-D, TVR14102-D, TVR14112-D, TVR20181-D, TVR20201-D,
TVR20221-D, TVR20241-D, TVR20271-D, TVR20301-D, TVR20331-D, TVR20361-D,
TVR20391-D, TVR20431-D, TVR20471-D, TVR20511-D, TVR20561-D, TVR20621-D,
TVR20681-D, TVR20751-D, TVR20821-D, TVR20911-D, TVR20102-D, TVR20112-D for USR
and CNR Investigation.

Dear Ms. Chang,

Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc.

UL's investigation of your product has been completed under the above project number and the subject product was determined to comply with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Recognized Marking and/or Recognized Component Mark only at the factory under UL's Follow-Up Service Program to the subject product, which are constructed as described below:

Identical to the subject models, which were submitted to UL for this investigation. The UL Records covering the product will be in the Follow-Up Services Procedure, File E173642, Volume 1.

This authorization applies only to the address on this letter.

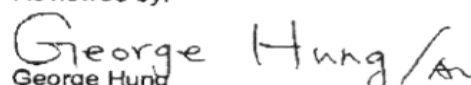
This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn.

Sincerely,


Stephen Wang
Engineer
UL International, L.L.C., Taiwan Branch
Tel: 886-2-2896-7790
Fax: 886-2-2896-6140
E-mail: stephen.wang@tw.ul.com

Reviewed by:


George Hung
Project Engineer
UL International, L.L.C., Taiwan Branch

An independent organization working for a safer world with integrity, precision and knowledge.



cUL certificate**Underwriters
Laboratories Inc.****Northbrook Division**
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800
fax: 1 847 272 8129
Customer service: 1 877 654 3577**NOTICE OF AUTHORIZATION TO APPLY THE UL MARK**

August 24, 2004

Ms. Alice Chang
Thinking Electronic Industrial Co Ltd
21 Lane 373 Minsu 1st Rd
San-Ming Dist
Kaohsiung 80759
TaiwanReference: File E186499 Project 04NK18443
Product: Canadian Recognition for All Varistor Types Covered Under File E186499

Dear Ms. Chang,

UL's investigation of your product has been completed under the above project number and the subject product was determined to comply with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Recognized Marking and/or Recognized Component Mark only at the factory under UL's Follow-Up Service Program to the subject product, which is constructed as described below:

identical to the subject model, which was submitted to UL for this investigation. The UL Records covering the product will be in the Follow-Up Services Procedure, File E186499, Volumes 1, 2.

To provide the manufacturer with the intended authorization to use the UL Mark, the addressee must send a copy of this Notice and all attached material to each manufacturing location as currently authorized in File E186499, Volumes 1, 2.

This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn.

Sincerely,

Sheila Sotelo
Project Engineer
Department: 3013ENBK
Tel: (847)664-3893
Fax: (847)313-6247
E-mail: Sheila.Sotelo@us.ul.com

Reviewed by:

Vladimir Ivetic
Project Engineer
Department: 3016SNBK
E-mail: Vladimir.Ivetic@us.ul.com

An independent organization working for a safer world with integrity, precision and knowledge.

