

CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2010846-0
Report Reference E496569-20190703
Date 27-Jan-2021

Issued to: Flex Electronics (Shanghai) Co Ltd
33 Fuhua Road, Jiading District Shanghai
China 201818

**This is to certify that
representative samples of**

QQJQ8 - Power Supplies for Use with Audio/Video,
Information and Communication Technology Equipment
Certified for Canada - Component

See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the
component requirements in the Standard(s) indicated on
this Certificate. UL Recognized components are incomplete
in certain constructional features or restricted in
performance capabilities and are intended for installation in
complete equipment submitted for investigation to UL LLC.

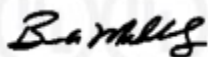
Standard(s) for Safety: CSA C22.2 NO. 62368-1-14, 2nd Ed., Issue Date: 2014-12-01

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark.
Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified
and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
PKB 4110C PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4110D PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4111A PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4111A SIOT	DC-DC Converter
PKB 4111C PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4111D PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4113C PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4118GC PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any	DC-DC Converter



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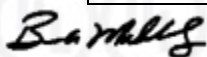
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combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	
PKB 4211D PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4213D PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4216C PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4217ND*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4313D PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4313DA PIOA	DC-DC Converter
PKB 4313DA*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4317Y PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4318 PIOB	DC-DC Converter



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PKB 4318N PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4413D PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4413D PIHSUALA	DC-DC Converter
PKB 4413DA*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4417 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4418 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4418 PIOA	DC-DC Converter
PKB 4510 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4513 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4513 PINBOVLC	DC-DC Converter
PKB 4518NC PI*, PI in the type designation is replaced by SI for surface mount versions of the above through	DC-DC Converter

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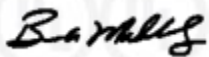
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hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	
PKB 4610 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4619 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4711 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4713 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4715 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4717 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4718LC PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter



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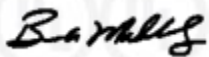
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PKB 4810 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4910A PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4913 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4918HC PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 5410 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 5610 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 5711 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 5713 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences	DC-DC Converter



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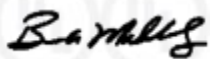
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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L496569-2119-30709102-1
Report Reference E496569-20190703
Date 27-Jan-2021

Issued to: Flex Electronics (Shanghai) Co Ltd
33 Fuhua Road, Jiading District Shanghai
China 201818

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QQJQ2 - Power Supplies for Use with Audio/Video,
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Component

See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the
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performance capabilities and are intended for installation in
complete equipment submitted for investigation to UL LLC.

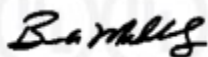
Standard(s) for Safety: UL 62368-1, 2nd Ed., Issue Date: 2014-12-01

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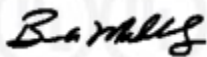


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Model	Category Description
PKB 4110C PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4110C PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4110D PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4110D PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4111A PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4111A PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4111A SIOT	DC-DC Converter
PKB 4111A SIOT	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4111C PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4111C PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4111D PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences	DC-DC Converter



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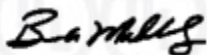
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PKB 4111D PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4113C PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4113C PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4118GC PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4118GC PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4211D PI	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4211D PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4211D PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4213D PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4213D PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4216C PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4216C PI*	Power Supplies for AV, ITE, and AVICT Equipment



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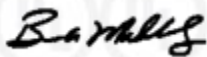
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PKB 4217ND*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4313D PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4313D PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4313DA PIOA	DC-DC Converter
PKB 4313DA PIOA	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4313DA*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4313DA*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4317Y PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4317Y PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4318 PIOB	DC-DC Converter
PKB 4318 PIOB	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4318N PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4318N PI*	Power Supplies for AV, ITE, and AVICT Equipment



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PKB 4413D PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4413D PIHSUALA	DC-DC Converter
PKB 4413DA*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4413DA*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4417 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4417 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4418 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4418 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4418 PIOA	DC-DC Converter
PKB 4418 PIOA	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4510 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4510 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4513 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole	DC-DC Converter

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mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	
PKB 4513 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4513 PINBOVLC	DC-DC Converter
PKB 4513 PINBOVLC	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4518NC PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4518NC PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4610 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4610 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4619 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4619 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4711 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4711 PI*	Power Supplies for AV, ITE, and AVICT Equipment
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PKB 4715 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4715 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4717 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4718LC PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4718LC PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4810 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4810 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4910A PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4910A PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4913 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter

B. Mahlenz

Bruce Mahrenholz, Director North American Certification Program

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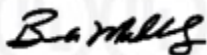
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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L496569-2119-30709102-1
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Date 27-Jan-2021

PKB 4913 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 4918HC PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 4918HC PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 5410 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 5410 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 5610 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 5610 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 5711 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 5711 PI*	Power Supplies for AV, ITE, and AVICT Equipment
PKB 5713 PI*, PI in the type designation is replaced by SI for surface mount versions of the above through hole mount models, all models may be followed by any combination of characters representing minor differences that do not affect safety, see model differences for examples of suffixes.	DC-DC Converter
PKB 5713 PI*	Power Supplies for AV, ITE, and AVICT Equipment



Bruce Mahrenholz, Director North American Certification Program

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