

# Certificate of Compliance

## Certificate Number(s):

UL-US-L181974-14-  
32205102-12

## Report Reference:

E181974-20150223

## Issue Date:

2026-08-26

Issued to:

**Texas Instruments Incorporated**  
**12500 T I BLVD, DALLAS, TX, 75243, US**

This certificate confirms that representative samples of:  
**FPPT2 - Nonoptical Isolating Devices - Component**

**See Addendum Page for Product Designation(s).**

Have been evaluated 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.

**UL 1577, Edition 5, Issue Date 2014-04-25, Revision Date 2023-07-06**

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance 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.



David Piecuch  
UL Mark Certification Program Manager



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# CERTIFICATE OF COMPLIANCE

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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.

## Single protected non-optical isolators providing 3000 Vac isolation

**Model(s):** ISO7721FS\*

**Model(s):** ISO1211S (8D pkg), ISO1212S (16DBQ pkg) *May be followed by any suffix.*

## Single protected non-optical isolators providing 3000 Vac isolation,

**Model(s):** ISO1044\*, ISO1640 (8D pkg)\*, ISO1641 (8D pkg)\*, ISO6720 (8D pkg)\*, ISO6721 (8D pkg)\*, ISO7021\*

## Single protected non-optical isolators providing 5000 Vac isolation

**Model(s):** ISOW1412\*, ISOW7740\*, ISOW7741\*, ISOW7742\*, ISOW7743\*, ISOW7744\*

## Single protected non-optical isolators providing 5000 Vac isolation,

**Model(s):** ISO6720 (8DWV pkg)\*, ISO6721 (8DWV pkg)\*, ISO6731\*, ISO6740\*, ISO6741\*, ISO6742\*

## Single protection non-optical isolators at 3000 Vac isolation voltage

**Model(s):** ISO6420 (D pkg), ISO6421 (D pkg), ISO6431 (DBQ pkg), ISO6440 (DBQ pkg), ISO6441 (DBQ pkg), ISO6442 (DBQ pkg), ISO6721R (8D Pkg), ISOS141 (16DBQ Pkg), ISOUSB111B (16DW Pkg), ISOUSB211B (28DP Pkg), SN7710 (D pkg), SN7720 (D pkg), SN7721 (D pkg) *May be followed by any suffix.*

## Single protection non-optical isolators at 3750 Vac / 5303 Vdc isolation voltage

**Model(s):** TPSI2072-Q1, TPSI2140-Q1 *May be followed by any suffix.*

## Single protection non-optical isolators at 3750 Vac isolation voltage

**Model(s):** ISOM8710, ISOM8711 *May be followed by any suffix.*

## Single protection non-optical isolators at 5000 Vac isolation voltage

**Model(s):** AMC0300DDWV, AMC0300DQDWV, AMC0300RDWV, AMC0300RQDWV, AMC0302DQDWV, AMC0302DWV, AMC0302RDWV, AMC0302RQDWV, AMC0303DWV, AMC0303QDWV, AMC0306M05QDWV, AMC0306M25DWV, AMC0306M25QDWV, AMC0311DDWV, AMC0311DQDWV, AMC0311RDWV, AMC0311RQDWV, AMC0311SDWV, AMC0311SQDWV, AMC0330DDWV, AMC0330DQDWV, AMC0330RDWV, AMC0330RQDWV, AMC0330SDWV, AMC0330SQDWV, AMC0336DWV, AMC0336QDWV, AMC0380D04DFX, AMC0380D04QDFX, AMC0380D06DFX, AMC0380D06QDFX, AMC0380D10DFX, AMC0380D10QDFX, AMC0380D16DFX, AMC0380D16QDFX, AMC0381D04DFX, AMC0381D04QDFX, AMC0381D06DFX, AMC0381D06QDFX, AMC0381D10DFX, AMC0381D10QDFX, AMC0381D16DFX, AMC0381D16QDFX, AMC0386M04DFX, AMC0386M04QDFX, AMC0386M06DFX, AMC0386M06QDFX, AMC0386M10DFX, AMC0386M10QDFX, AMC0386M16DFX, AMC0386M16QDFX, AMC1200(C)(-Q)DUB, AMC1200(C)(-Q)DWV *May be followed by - R Q1, RQ1 or any other suffix.*

**Model(s):** ISO1640 (16DW Pkg), ISO1641 (16DW Pkg), ISO1642 (16DW Pkg), ISO1643 (16DW Pkg), ISO1644 (16DW Pkg), ISO6420 (DWV pkg), ISO6421 (DWV pkg), ISO6431 (DFP pkg), ISO6431 (DW pkg), ISO6440 (DFP pkg), ISO6440 (DW pkg), ISO6441 (DFP pkg), ISO6441 (DW pkg), ISO6442 (DFP pkg), ISO6442 (DW pkg), ISO6460 (DW pkg), ISO6461 (DW pkg), ISO6462 (DW pkg), ISO6463 (DW pkg), ISO6760 (16DW Pkg), ISO6761 (16DW Pkg), ISO6762 (16DW Pkg), ISO6763 (16DW Pkg), ISOM8110 (DFS pkg), ISOM8111 (DFS pkg), ISOM8112 (DFS pkg), ISOM8113 (DFS pkg), ISOM8115 (DFS pkg), ISOM8116 (DFS pkg), ISOM8117 (DFS pkg), ISOM8118 (DFS pkg), ISOW1044 (20-DFM PKG), ISOW1432 (20-DFM PKG), ISOW3080 (DWE pkg), ISOW3080P (DWE pkg),

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ISOW3086 (DWE pkg), ISOW3086P (DWE pkg), ISOW6440 (DWE pkg), ISOW6441 (DWE pkg), ISOW6442 (DWE pkg), ISOW6443 (DWE pkg), ISOW6444 (DWE pkg), ISOW7721, SN6720 (DWV pkg), SN6741 (DW pkg), SN6742 (DW pkg) *May be followed by any suffix.*

## Single protection non-optical isolators at 5700 Vac isolation voltage

**Model(s):** ISO7741U (DUW pkg), ISO7742U (DUW pkg), ISOUSB111 (16DW Pkg), ISOUSB111 (DWX pkg), ISOUSB211 (28DP Pkg), SN7741 (DBQ pkg), SN7741 (DW pkg), SN7742 (DW pkg) *May be followed by any suffix.*

## Single protection, non-optical isolators at 3000 Vac isolation voltage

**Model(s):** ISO1211\*, ISO1212\*, ISO7041\*, ISO7310\*, ISO7320\*, ISO7321\*, ISO7330\*, ISO7331\*, ISO7340\*, ISO7341\*, ISO7342\*, ISO7741FS\*, ISO7742FS\*, ISO7760 (16DBQ pkg)\*, ISO7762 (16DBQ pkg)\*, ISO7763 (16DBQ pkg)\*, SN003021 (8D pkg)\*

**Model(s):** ISO1228, ISO1500 (16DBQ pkg), ISO6721R (8D pkg), ISO7710 (8D pkg), ISO7720 (8D pkg), ISO7721 (8D pkg), ISO7721FS (8D pkg), ISO7730 (16DBQ pkg), ISO7730 (16DW pkg), ISO7731 (16DBQ pkg), ISO7741 (16DBQ pkg), ISO7741FS (16DBQ pkg), ISO7742 (16DBQ pkg), ISO7742FS (16DBQ pkg), ISO7760 (16DBQ pkg), ISO7761 (16DBQ pkg), ISO7761 (16DBQ pkg)\*, ISO7761 (16DW pkg), ISO7762 (16DBQ pkg), ISO7763 (16DBQ pkg), SN003021 (8D pkg) *May be followed by any suffix.*

## Single protection, non-optical isolators at 3750 Vac isolation voltage

**Model(s):** ISOM8110, ISOM8111, ISOM8112, ISOM8113, ISOM8115, ISOM8116, ISOM8117, ISOM8118, ISOM8610 *May be followed by any suffix.*

## Single protection, non-optical isolators at 5000 Vac isolation voltage

**Model(s):** ISOW7820\*, ISOW7821\*, ISOW7822\*, ISOW7840\*, ISOW7841\*, ISOW7842\*, ISOW7843\*, ISOW7844\*

**Model(s):** ISO1042 (16DW pkg), ISO1042 (8DWV pkg), ISO1410 (16DW pkg), ISO1412 (16DW pkg), ISO1430 (16DW pkg), ISO1432 (16DW pkg), ISO1450 (16DW pkg), ISO1452 (16DW pkg), ISO6163, ISO7741FT, ISO7741T, ISO7742FT, ISO7742T *May be followed by any suffix.*

## Single protection, non-optical isolators at 5700 Vac isolation voltage

**Model(s):** ISO5451\*, ISO5452\*, ISO5851\*, ISO5852S\*, ISO7710\*, ISO7720\*, ISO7721\*, ISO7761 (16DW pkg)\*, ISO7810\*, ISO7820\*, ISO7820LL\*, ISO7821\*, ISO7821LL\*, ISO7821LLS\*, ISO7830\*, ISO7831\*, ISO7840\*, ISO7841\*, ISO7842\*, SN005721\*, SN1506011\*

**Model(s):** ISO6742 (16DWW pkg), ISO7710 (16DW pkg), ISO7710 (8DWV pkg), ISO7720 (16DW pkg), ISO7720 (8DWV pkg), ISO7721 (16DW pkg), ISO7721 (8DWV pkg), ISO7731 (16DW pkg), ISO7740 (16DBQ pkg), ISO7740 (16DW pkg), ISO7741 (16DW pkg), ISO7741 (16DWW pkg), ISO7741E-Q1 (16DW pkg), ISO7742 (16DW pkg), ISO7760 (16DW pkg), ISO7762 (16DW pkg), ISO7763 (16DW pkg) *May be followed by any suffix.*

# Certificate of Compliance

## Certificate Number(s):

UL-CA-L181974-24-  
32205102-9

## Report Reference:

E181974-20150223

## Issue Date:

2026-08-26

Issued to:

**Texas Instruments Incorporated  
12500 T I BLVD, DALLAS, TX, 75243, US**

This certificate confirms that representative samples of:

**FPPT8 - Nonoptical Isolating Devices Certified for Canada -  
Component**

**See Addendum Page for Product Designation(s).**

Have been evaluated 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.

**CSA Component Acceptance Service Notice No. 5A, Issue Date:  
1998-01-23**

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

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David Piecuch  
UL Mark Certification Program Manager



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Report reference: E181974-20150223  
Issue Date: 2026-08-26

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

## Single protected non-optical isolators providing 3000 Vac isolation,

**Model(s):** ISO1044\*, ISO1640 (8D pkg)\*, ISO1641 (8D pkg)\*, ISO6720 (8D pkg)\*, ISO6721 (8D pkg)\*, ISO7021\*

## Single protected non-optical isolators providing 5000 Vac isolation,

**Model(s):** ISO6720 (8DWV pkg)\*, ISO6721 (8DWV pkg)\*, ISO6731\*, ISO6740\*, ISO6741\*, ISO6742\*

## Single protection non-optical isolators at 3000 Vac isolation voltage

**Model(s):** ISO6420 (D pkg), ISO6421 (D pkg), ISO6431 (DBQ pkg), ISO6440 (DBQ pkg), ISO6441 (DBQ pkg), ISO6442 (DBQ pkg), SN7710 (D pkg), SN7720 (D pkg), SN7721 (D pkg) *May be followed by any suffix.*

## Single protection non-optical isolators at 3750 Vac / 5303 Vdc isolation voltage

**Model(s):** TPSI2072-Q1, TPSI2140-Q1 *May be followed by any suffix.*

## Single protection non-optical isolators at 5000 Vac isolation voltage

**Model(s):** AMC0300DDWV, AMC0300DQDWV, AMC0300RDWV, AMC0300RQDWV, AMC0302DQDWV, AMC0302DWV, AMC0302RDWV, AMC0302RQDWV, AMC0303DWV, AMC0303QDWV, AMC0306M05QDWV, AMC0306M25DWV, AMC0306M25QDWV, AMC0311DDWV, AMC0311DQDWV, AMC0311RDWV, AMC0311RQDWV, AMC0311SDWV, AMC0311SQDWV, AMC0330DDWV, AMC0330DQDWV, AMC0330RDWV, AMC0330RQDWV, AMC0330SDWV, AMC0330SQDWV, AMC0336DWV, AMC0336QDWV, AMC0380D04DFX, AMC0380D04QDFX, AMC0380D06DFX, AMC0380D06QDFX, AMC0380D10DFX, AMC0380D10QDFX, AMC0380D16DFX, AMC0380D16QDFX, AMC0381D04DFX, AMC0381D04QDFX, AMC0381D06DFX, AMC0381D06QDFX, AMC0381D10DFX, AMC0381D10QDFX, AMC0381D16DFX, AMC0381D16QDFX, AMC0386M04DFX, AMC0386M04QDFX, AMC0386M06DFX, AMC0386M06QDFX, AMC0386M10DFX, AMC0386M10QDFX, AMC0386M16DFX, AMC0386M16QDFX, AMC1200(C)(-,Q)DUB, AMC1200(C)(-,Q)DWV *May be followed by -. R Q1, RQ1 or any other suffix.*

**Model(s):** ISO6420 (DWV pkg), ISO6421 (DWV pkg), ISO6431 (DFP pkg), ISO6431 (DW pkg), ISO6440 (DFP pkg), ISO6440 (DW pkg), ISO6441 (DFP pkg), ISO6441 (DW pkg), ISO6442 (DFP pkg), ISO6442 (DW pkg), ISO6460 (DW pkg), ISO6461 (DW pkg), ISO6462 (DW pkg), ISO6463 (DW pkg), ISO6760 (16DW Pkg), ISOM8110 (DFS pkg), ISOM8111 (DFS pkg), ISOM8112 (DFS pkg), ISOM8113 (DFS pkg), ISOM8115 (DFS pkg), ISOM8116 (DFS pkg), ISOM8117 (DFS pkg), ISOM8118 (DFS pkg), ISOW3080 (DWE pkg), ISOW3080P (DWE pkg), ISOW3086 (DWE pkg), ISOW3086P (DWE pkg), ISOW6440 (DWE pkg), ISOW6441 (DWE pkg), ISOW6442 (DWE pkg), ISOW6443 (DWE pkg), ISOW6444 (DWE pkg), SN6720 (DWV pkg), SN6741 (DW pkg), SN6742 (DW pkg) *May be followed by any suffix.*

## Single protection non-optical isolators at 5700 Vac isolation voltage

**Model(s):** ISO7741U (DUW pkg), ISO7742U (DUW pkg), SN7741 (DBQ pkg), SN7741 (DW pkg), SN7742 (DW pkg) *May be followed by any suffix.*

## Single protection, non-optical isolators at 3000 Vac isolation voltage

**Model(s):** ISO7041\*

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**Model(s):** ISO1228, ISO1500 (16DBQ pkg), ISO6721R (8D pkg), ISO7710 (8D pkg), ISO7720 (8D pkg), ISO7721 (8D pkg), ISO7721FS (8D pkg), ISO7730 (16DBQ pkg), ISO7731 (16DBQ pkg), ISO7741 (16DBQ pkg), ISO7741FS (16DBQ pkg), ISO7742 (16DBQ pkg), ISO7742FS (16DBQ pkg), ISO7760 (16DBQ pkg), ISO7761 (16DBQ pkg), ISO7761 (16DBQ pkg)\*, ISO7762 (16DBQ pkg), ISO7763 (16DBQ pkg), SN003021 (8D pkg) *May be followed by any suffix.*

## **Single protection, non-optical isolators at 3750 Vac isolation voltage**

**Model(s):** ISOM8110, ISOM8111, ISOM8112, ISOM8113, ISOM8115, ISOM8116, ISOM8117, ISOM8118, ISOM8610 *May be followed by any suffix.*

## **Single protection, non-optical isolators at 5000 Vac isolation voltage**

**Model(s):** ISO1042 (16DW pkg), ISO1042 (8DWV pkg), ISO1410 (16DW pkg), ISO1412 (16DW pkg), ISO1430 (16DW pkg), ISO1432 (16DW pkg), ISO1450 (16DW pkg), ISO1452 (16DW pkg), ISO6163, ISO7741FT, ISO7741T, ISO7742FT, ISO7742T *May be followed by any suffix.*

## **Single protection, non-optical isolators at 5700 Vac isolation voltage**

**Model(s):** ISO6742 (16DWW pkg), ISO7721 (8DWV pkg), ISO7740 (16DBQ pkg) *May be followed by any suffix.*

File E181974  
Project 4786649330

Issued: February 23, 2015  
Revised: June 20, 2019

REPORT

On

COMPONENT - Nonoptical Isolating Devices

\*  
\*

Texas Instruments **Incorporated**  
**Dallas, TX**

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## DESCRIPTION

## PRODUCTS COVERED:

USR/CNR - Single Protection, Non-Optical Isolator, Models AMC0300DDWV, AMC0300DQDWV, AMC0300RDWV, AMC0300RQDWV, AMC0302DWV, AMC0302DQDWV, AMC0302RDWV, AMC0302RQDWV, AMC0303DWV, AMC0303QDWV, AMC0306M05QDWV, AMC0306M25DWV, AMC0306M25QDWV, AMC0311RDWV, AMC0311RQDWV, AMC0311DDWV, AMC0311DQDWV, AMC0311SDWV, AMC0311SQDWV, AMC0330DDWV, AMC0330DQDWV, AMC0330RDWV, AMC0330RQDWV, AMC0330SDWV, AMC0330SQDWV, AMC0336DWV, AMC0336QDWV, AMC0380D04DFX, AMC0380D04QDFX, AMC0380D06DFX, AMC0380D06QDFX, AMC0380D10DFX, AMC0380D10QDFX, AMC0380D16DFX, AMC0380D16QDFX, AMC0381D04DFX, AMC0381D04QDFX, AMC0381D06DFX, AMC0381D06QDFX, AMC0381D10DFX, AMC0381D10QDFX, AMC0381D16DFX, AMC0381D16QDFX, AMC0386M04DFX, AMC0386M04QDFX, AMC0386M06DFX, AMC0386M06QDFX, AMC0386M10DFX, AMC0386M10QDFX, AMC0386M16DFX, AMC0386M16QDFX, AMC1200(C)(-,Q)DUB, and AMC1200(C)(-,Q)DWV. May be followed by -. R Q1, RQ1 or any other suffix.

USR - Single Protection, Non-Optical Isolator, Models IS01211, IS01211S (8D pkg), IS01212, IS01212S (16DBQ pkg), IS05451, IS05452, IS05851, IS05852S, IS07310, IS07320, IS07321, IS07330, IS07331, IS07340, IS07341, IS07342, IS07710 (8DWV pkg), IS07710 (16DW pkg), IS07720 (8DWV pkg), IS07720 (16DW pkg), IS07721 (8DWV pkg), IS07721 (16DW pkg), IS07730 (16DW pkg), IS07731 (16DW pkg), IS07740 (16DW pkg), IS07741 (16DW pkg), IS07741 (16DWW pkg), IS07741E-Q1 (16DW pkg), IS07742 (16DW pkg), IS07760 (16DW pkg), IS07761 (16DW pkg), IS07762 (16DW pkg), IS07763 (16DW pkg), IS07810, IS07820, IS07820LL, IS07821, IS07821LL, IS07821LLS, IS07830, IS07831, IS07840, IS07841, IS07842, IS0USB111 (16DW pkg), IS0USB111 (DWX pkg), IS0USB211 (28DP pkg), IS0USB211B (28DP pkg), ISOW1044 (20-DFM pkg), ISOW1412, ISOW1432 (20-DFM pkg), ISOW7721, ISOW7740, ISOW7741, ISOW7742, ISOW7743, ISOW7744, ISOW7820, ISOW7821, ISOW7822, ISOW7840, ISOW7841, ISOW7842, ISOW7843, ISOW7844, SN005721, SN1506011. May be followed by any suffix.

USR/CNR - Single Protection, Non-Optical Isolator, Models IS01042 (8DWV pkg), IS01042 (16DW pkg), IS01044, IS01228, IS01410 (16DW pkg), IS01412 (16DW pkg), IS01430 (16DW pkg), IS01432 (16DW pkg), IS01450 (16DW pkg), IS01452 (16DW pkg), IS01500 (16DBQ pkg), IS01640 (8D pkg), IS01640 (16DW Pkg), IS01641 (8D pkg), IS01641 (16DW Pkg), IS01642 (16DW Pkg), IS01643 (16DW Pkg), IS01644 (16DW Pkg), IS06163, IS06420 (D pkg), IS06420 (DWV pkg), IS06421 (D pkg), IS06421 (DWV pkg), IS06431 (DBQ pkg), IS06431 (DFP pkg), IS06431 (DW pkg), IS06440 (DBQ pkg), IS06440 (DFP pkg), IS06440 (DW pkg), IS06441 (DBQ pkg), IS06441 (DFP pkg), IS06441 (DW pkg), IS06442 (DBQ pkg), IS06442 (DFP pkg), IS06442 (DW pkg), IS06460 (DW pkg), IS06461 (DW pkg), IS06462 (DW pkg), IS06463 (DW pkg), IS06720 (8D pkg), IS06720 (8DWV pkg), IS06721 (8D pkg), IS06721 (8DWV pkg), IS06721R (8D pkg), IS06731, IS06740, IS06741, IS06742, IS06742 (16DWW pkg), IS06760 (16DW pkg), IS06761 (16DW pkg), IS06762 (16DW pkg), IS06763 (16DW pkg), IS07021, IS07041, IS07710 (8D pkg), IS07720 (8D pkg), IS07721 (8D pkg), IS07721FS (8D pkg), IS07730 (16DBQ pkg), IS07731 (16DBQ pkg), IS07740 (16DBQ pkg), IS07741 (16DBQ pkg), IS07741FS (16DBQ pkg), IS07741FT, IS07741T, IS07741U (DUW pkg), IS07742 (16DBQ pkg), IS07742FS (16DBQ pkg), IS07742FT, IS07742T, IS07742U (DUW pkg), IS07760 (16DBQ pkg), IS07761 (16DBQ pkg), IS07762 (16DBQ pkg), IS07763 (16DBQ pkg), ISOM8110, ISOM8110 (DFS pkg), ISOM8111, ISOM8111 (DFS pkg), ISOM8112, ISOM8112 (DFS pkg), ISOM8113, ISOM8113 (DFS pkg), ISOM8115, ISOM8115 (DFS pkg), ISOM8116, ISOM8116 (DFS pkg), ISOM8117, ISOM8117 (DFS pkg), ISOM8118, ISOM8118 (DFS pkg), ISOM8610, ISOM8710, ISOM8711, ISOS141 (16DBQ pkg), IS0USB111B (16DW pkg), ISOW3080 (DWE pkg), ISOW3080P (DWE pkg), ISOW3086, (DWE pkg), ISOW3086P (DWE pkg), ISOW6440 (DWE pkg), ISOW6441 (DWE pkg), ISOW6442 (DWE pkg), ISOW6443 (DWE pkg), ISOW6444 (DWE pkg), SN6720 (DWV pkg), SN6741 (DW pkg), SN6742 (DW pkg), SN7710 (D pkg), SN7720 (D pkg), SN7721 (D pkg), SN7741 (DW pkg), SN7742 (DW pkg), SN7741 (DBQ pkg), SN003021 (8D pkg), TPSI2140-Q1, and TPSI2072-Q1. May be followed by any suffix.

## MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$):

| Model                   | Current (mA)     |                  | Power (mW)       |                  | Isolation Voltage at 60 sec Vrms | Max Operating Ambient Temp (°C) | Max Junction Temp (°C) | Max Storage Temp (°C) | Max Data Rate (Mbps) |
|-------------------------|------------------|------------------|------------------|------------------|----------------------------------|---------------------------------|------------------------|-----------------------|----------------------|
|                         | Encoder (Side 1) | Decoder (Side 2) | Encoder (Side 1) | Decoder (side 2) |                                  |                                 |                        |                       |                      |
| AMC0300DDWV             | 6.7              | 9.9              | 37               | 54               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0300DQDWV            | 6.7              | 9.9              | 37               | 54               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0300RDWV             | 6.7              | 7.6              | 37               | 42               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0300RQDWV            | 6.7              | 7.6              | 37               | 42               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0302DWV              | 6.9              | 9.9              | 38               | 54               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0302DQDWV            | 6.9              | 9.9              | 38               | 54               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0302RDWV             | 6.9              | 7.6              | 38               | 42               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0302RQDWV            | 6.9              | 7.6              | 38               | 42               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0303DWV (-;R;Q1;RQ1) | 5.5              | 6                | 30               | 33               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0303QDWV             | 5.5              | 6                | 30               | 33               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0306M05QD WV         | 8                | 7                | 38               | 54               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0306M25DW V          | 7.7              | 7                | 37               | 54               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0306M25QD WV         | 7.7              | 7                | 37               | 54               | 5000                             | 125                             | 150                    | 150                   | 20                   |
| AMC0311RDWV             | 5.6              | 7.4              | 31               | 41               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0311RQDWV            | 5.6              | 7.4              | 31               | 41               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0311DDWV             | 5.6              | 9.7              | 31               | 53               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0311DQDWV            | 5.6              | 9.7              | 31               | 53               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0311SDWV             | 5.6              | 7.4              | 31               | 41               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0311SQDWV            | 5.6              | 7.4              | 31               | 41               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0330DDWV             | 5.6              | 9.7              | 31               | 53               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0330DQDWV            | 5.6              | 9.7              | 31               | 53               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0330RDWV             | 5.6              | 7.4              | 31               | 41               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0330RQDWV            | 5.6              | 7.4              | 31               | 41               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0330SDWV             | 5.6              | 7.4              | 31               | 41               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0330SQDWV            | 5.6              | 7.4              | 31               | 41               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0336DWV              | 7                | 5                | 39               | 28               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0336QDWV             | 7                | 5                | 39               | 28               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0380D04DF X          | 5.6              | 9.7              | 60               | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0380D04QD FX         | 5.6              | 9.7              | 60               | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0380D06DF X          | 5.6              | 9.7              | 60               | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0380D06QD FX         | 5.6              | 9.7              | 60               | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0380D10DF X          | 5.6              | 9.7              | 60               | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0380D10QD FX         | 5.6              | 9.7              | 60               | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0380D16DF X          | 5.6              | 9.7              | 60               | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0380D16QD FX         | 5.6              | 9.7              | 60               | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0381D04DF X          | 5.6              | 9.7              | 160              | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0381D04QD FX         | 5.6              | 9.7              | 160              | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0381D06DF X          | 5.6              | 9.7              | 160              | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0381D06QD FX         | 5.6              | 9.7              | 160              | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0381D10DF X          | 5.6              | 9.7              | 160              | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0381D10QD FX         | 5.6              | 9.7              | 160              | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0381D16DF X          | 5.6              | 9.7              | 160              | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0381D16QD FX         | 5.6              | 9.7              | 160              | 50               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0386M04DF X          | 7                | 5                | 191              | 28               | 5000                             | 125                             | 150                    | 150                   | 10                   |

## MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$):

| Model                | Current (mA)     |                  | Power (mW)       |                  | Isolation Voltage at 60 sec Vrms | Max Operating Ambient Temp (°C) | Max Junction Temp (°C) | Max Storage Temp (°C) | Max Data Rate (Mbps) |
|----------------------|------------------|------------------|------------------|------------------|----------------------------------|---------------------------------|------------------------|-----------------------|----------------------|
|                      | Encoder (Side 1) | Decoder (Side 2) | Encoder (Side 1) | Decoder (side 2) |                                  |                                 |                        |                       |                      |
| AMC0386M04QD FX      | 7                | 5                | 191              | 28               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0386M06DF X       | 7                | 5                | 191              | 28               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0386M06QD FX      | 7                | 5                | 191              | 28               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0386M10DF X       | 7                | 5                | 191              | 28               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0386M10QD FX      | 7                | 5                | 191              | 28               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0386M16DF X       | 7                | 5                | 191              | 28               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC0386M16QD FX      | 7                | 5                | 191              | 28               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC1200(C)(-,Q)DUB   | 6.7              | 9.9              | 37               | 54               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| AMC1200(C)(-,Q)DWV   | 6.7              | 9.9              | 37               | 54               | 5000                             | 125                             | 150                    | 150                   | 10                   |
| IS01042 (8DW pkg)    | 3.5              | 73.4             | 25               | 360              | 5000                             | 125                             | 150                    | 150                   | 5                    |
| IS01042 (16DW pkg)   | 3.5              | 73.4             | 25               | 360              | 5000                             | 125                             | 150                    | 150                   | 5                    |
| IS01044              | 2.8              | 24               | 15               | 131              | 3000                             | 125                             | 150                    | 150                   | 5                    |
| IS01211              | 2                | 7                | 20               | 430              | 3000                             | 125                             | 150                    | 150                   | 4                    |
| IS01211S (8D pkg)    | 2                | 7                | 20               | 430              | 3000                             | 125                             | 150                    | 150                   | 4                    |
| IS01212              | 2                | 7                | 20               | 430              | 3000                             | 125                             | 150                    | 150                   | 4                    |
| IS01212S (16DBQ pkg) | 2                | 7                | 20               | 430              | 3000                             | 125                             | 150                    | 150                   | 4                    |
| IS01228              | 22.3             | 5.5              | 535              | 30               | 3000                             | 125                             | 150                    | 150                   | 1.5                  |
| IS01410 (16DW pkg)   | 5.1              | 160              | 28               | 528              | 5000                             | 125                             | 150                    | 150                   | 0.5                  |
| IS01412 (16DW pkg)   | 5.1              | 160              | 28               | 528              | 5000                             | 125                             | 150                    | 150                   | 0.5                  |
| IS01430 (16DW pkg)   | 6                | 122              | 33               | 319              | 5000                             | 125                             | 150                    | 150                   | 12                   |
| IS01432 (16DW pkg)   | 6                | 122              | 33               | 319              | 5000                             | 125                             | 150                    | 150                   | 12                   |
| IS01450 (16DW pkg)   | 8.9              | 162              | 49               | 539              | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS01452 (16DW pkg)   | 8.9              | 162              | 49               | 539              | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS01500 (16DBQ pkg)  | 5.2              | 80               | 28               | 200              | 3000                             | 125                             | 150                    | 150                   | 1                    |
| IS01640 (8D Pkg)     | 3.3              | 3                | 18               | 16               | 3000                             | 125                             | 150                    | 150                   | 3.4                  |
| IS01640 (16DW Pkg)   | 4.0              | 4.9              | 21.5             | 26.5             | 5000                             | 125                             | 150                    | 150                   | 3.4                  |
| IS01641 (8D Pkg)     | 2.8              | 2.6              | 15               | 14               | 3000                             | 125                             | 150                    | 150                   | 3.4                  |

## MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT):

| Model              | Current (mA)     |                  | Power (mW)       |                  | Isolation Voltage at 60 sec Vrms | Max Operating Ambient Temp (°C) | Max Junction Temp (°C) | Max Storage Temp (°C) | Max Data Rate (Mbps) |
|--------------------|------------------|------------------|------------------|------------------|----------------------------------|---------------------------------|------------------------|-----------------------|----------------------|
|                    | Encoder (Side 1) | Decoder (side 2) | Encoder (Side 1) | Decoder (Side 2) |                                  |                                 |                        |                       |                      |
| IS01641 (16DW Pkg) | 3.7              | 4.3              | 20               | 23.5             | 5000                             | 125                             | 150                    | 150                   | 3.4                  |
| IS01642 (16DW Pkg) | 3.8              | 4.7              | 20.75            | 25.5             | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS01643 (16DW Pkg) | 3.1              | 5.4              | 16.75            | 29.5             | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS01644 (16DW Pkg) | 3.2              | 4.5              | 17.6             | 24.4             | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS05451            | 32               | 36               | 175              | 1080             | 5700                             | 125                             | 150                    | 150                   | 2                    |
| IS05452            | 32               | 36               | 175              | 1080             | 5700                             | 125                             | 150                    | 150                   | 2                    |
| IS05851            | 32               | 36               | 175              | 1080             | 5700                             | 125                             | 150                    | 150                   | 2                    |
| IS05852S           | 32               | 36               | 175              | 1080             | 5700                             | 125                             | 150                    | 150                   | 2                    |
| IS06163            | 7.5              | 7.5              | 60               | 60               | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS06420 (D pkg)    | 3                | 9.5              | 16               | 52               | 3000                             | 125                             | 150                    | 150                   | 150                  |
| IS06420 (DWV pkg)  | 3                | 9.5              | 16               | 52               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06421 (D pkg)    | 6.6              | 6.6              | 36               | 36               | 3000                             | 125                             | 150                    | 150                   | 150                  |
| IS06421 (DWV pkg)  | 6.6              | 6.6              | 36               | 36               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06431 (DBQ pkg)  | 5.1              | 7.7              | 28               | 42               | 3000                             | 125                             | 150                    | 150                   | 150                  |
| IS06431 (DFP pkg)  | 5.1              | 7.7              | 28               | 42               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06431 (DW pkg)   | 5.1              | 7.7              | 28               | 42               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06440 (DBQ pkg)  | 2.8              | 9.7              | 15               | 53               | 3000                             | 125                             | 150                    | 150                   | 150                  |
| IS06440 (DFP pkg)  | 2.8              | 9.7              | 15               | 53               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06440 (DW pkg)   | 2.8              | 9.7              | 15               | 53               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06441 (DBQ pkg)  | 4.4              | 7.9              | 24               | 43               | 3000                             | 125                             | 150                    | 150                   | 150                  |
| IS06441 (DFP pkg)  | 4.4              | 7.9              | 24               | 43               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06441 (DW pkg)   | 4.4              | 7.9              | 24               | 43               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06442 (DBQ pkg)  | 6.2              | 6.2              | 34               | 34               | 3000                             | 125                             | 150                    | 150                   | 150                  |
| IS06442 (DFP pkg)  | 6.2              | 6.2              | 34               | 34               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06442 (DW pkg)   | 6.2              | 6.2              | 34               | 34               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06460 (DW pkg)   | 3                | 9.5              | 16               | 52               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06461 (DW pkg)   | 4.2              | 8.4              | 23               | 46               | 5000                             | 125                             | 150                    | 150                   | 150                  |
| IS06462 (DW pkg)   | 5                | 7.1              | 27               | 39               | 5000                             | 125                             | 150                    | 150                   | 150                  |

## MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT):

| Model               | Current (mA)     |                  | Power (mW)       |                  | Isolation Voltage at 60 sec Vrms | Max Operating Ambient Temp (°C) | Max Junction Temp (°C) | Max Storage Temp (°C) | Max Data Rate (Mbps) |
|---------------------|------------------|------------------|------------------|------------------|----------------------------------|---------------------------------|------------------------|-----------------------|----------------------|
|                     | Encoder (Side 1) | Decoder (side 2) | Encoder (Side 1) | Decoder (Side 2) |                                  |                                 |                        |                       |                      |
| IS06720 (8D Pkg)    | 1.9              | 4.8              | 10               | 26               | 3000                             | 125                             | 150                    | 150                   | 50                   |
| IS06720 (8DW Pkg)   | 1.9              | 4.8              | 10               | 26               | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS06721 (8D Pkg)    | 3.5              | 3.5              | 19               | 19               | 3000                             | 125                             | 150                    | 150                   | 50                   |
| IS06721 (8DW Pkg)   | 3.5              | 3.5              | 19               | 19               | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS06721R (8D Pkg)   | 4.0              | 4.0              | 21.5             | 21.5             | 3000                             | 125                             | 150                    | 150                   | 50                   |
| IS06731             | 3.1              | 5.3              | 17               | 29               | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS06740             | 1.7              | 4.6              | 9                | 25               | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS06741             | 2.4              | 4                | 13               | 22               | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS06742             | 3.3              | 3.3              | 18               | 18               | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS06742 (16DWW pkg) | 12.5             | 12.5             | 69               | 69               | 5700                             | 125                             | 150                    | 150                   | 50                   |
| IS06760 (16DW Pkg)  | 1.4              | 4.5              | 7.5              | 24.5             | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS06761 (16DW Pkg)  | 2.0              | 4.1              | 10.5             | 22.4             | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS06762 (16DW Pkg)  | 2.5              | 3.6              | 13.5             | 19.4             | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS06763 (16DW Pkg)  | 3.0              | 3.0              | 16.4             | 16.4             | 5000                             | 125                             | 150                    | 150                   | 50                   |
| IS07021             | 0.39             | 0.39             | 2.1              | 2.1              | 3000                             | 125                             | 150                    | 150                   | 4                    |
| IS07041 (16DBQ pkg) | 0.4              | 0.2              | 2.7              | 1.8              | 3000                             | 125                             | 150                    | 150                   | 2                    |
| IS07310             | 1.3              | 4.2              | 7.2              | 23.1             | 3000                             | 125                             | 150                    | 150                   | 25                   |
| IS07320             | 3                | 8                | 16.5             | 44               | 3000                             | 125                             | 150                    | 150                   | 25                   |
| IS07321             | 6.5              | 6.5              | 35.8             | 35.8             | 3000                             | 125                             | 150                    | 150                   | 25                   |
| IS07330             | 4                | 10               | 22               | 55               | 3000                             | 125                             | 150                    | 150                   | 25                   |

## MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT):

| Model                  | Current (mA)     |                  | Power (mW)       |                  | Isolation Voltage at 60 sec Vrms | Max Operating Ambient Temp (°C) | Max Junction Temp (°C) | Max Storage Temp (°C) | Max Data Rate (Mbps) |
|------------------------|------------------|------------------|------------------|------------------|----------------------------------|---------------------------------|------------------------|-----------------------|----------------------|
|                        | Encoder (Side 1) | Decoder (Side 2) | Encoder (Side 1) | Decoder (Side 2) |                                  |                                 |                        |                       |                      |
| IS07331                | 6.5              | 9                | 35.8             | 49.5             | 3000                             | 125                             | 150                    | 150                   | 25                   |
| IS07340                | 5                | 13               | 27.5             | 71.5             | 3000                             | 125                             | 150                    | 150                   | 25                   |
| IS07341                | 7                | 11               | 38.5             | 60.5             | 3000                             | 125                             | 150                    | 150                   | 25                   |
| IS07342                | 5.6              | 9                | 30.8             | 49.5             | 3000                             | 125                             | 150                    | 150                   | 25                   |
| IS07710 (8D pkg)       | 3                | 8                | 16.5             | 44               | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS07710 (8DW pkg)      | 3                | 8                | 16.5             | 44               | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07710 (16DW pkg)     | 3                | 8                | 16.5             | 44               | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07720 (8D pkg)       | 1.6              | 7                | 10               | 40               | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS07720 (8DW pkg)      | 1.6              | 7                | 10               | 40               | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07720 (16DW pkg)     | 1.6              | 7                | 10               | 40               | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07721 (8D pkg)       | 4.5              | 4.5              | 25               | 25               | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS07721 (8DW pkg)      | 4.5              | 4.5              | 25               | 25               | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07721 (16DW pkg)     | 4.5              | 4.5              | 25               | 25               | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07721FS (8D pkg)     | 4.5              | 4.5              | 25               | 25               | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS07730 (16DBQ pkg)    | 6                | 23               | 33               | 126.5            | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS07730 (16DW pkg)     | 6                | 23               | 33               | 126.5            | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07731 (16DBQ pkg)    | 12               | 17               | 66               | 93.5             | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS07731 (16DW pkg)     | 12               | 17               | 66               | 93.5             | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07740 (16DBQ pkg)    | 7                | 31               | 38.5             | 170.5            | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS07740 (16DW pkg)     | 7                | 31               | 38.5             | 170.5            | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07741 (16DBQ pkg)    | 13               | 25               | 71.5             | 137.5            | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS07741 (16DW pkg)     | 13               | 25               | 71.5             | 137.5            | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07741 (16DWW pkg)    | 13               | 25               | 71.5             | 137.5            | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07741E-Q1 (16DW pkg) | 13               | 25               | 71.5             | 137.5            | 5700                             | 150                             | 175                    | 150                   | 100                  |
| IS07741FS (16DBQ pkg)  | 13               | 25               | 71.5             | 137.5            | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS07741FT              | 16               | 27               | 266              | 135              | 5000                             | 125                             | 150                    | 150                   | 100                  |
| IS07741T               | 16               | 27               | 266              | 135              | 5000                             | 125                             | 150                    | 150                   | 100                  |
| IS07741U (DUW pkg)     | 13               | 25               | 71.5             | 137.5            | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07742 (16DBQ pkg)    | 18               | 18               | 99               | 99               | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS07742 (16DW pkg)     | 18               | 18               | 99               | 99               | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07742FS (16DBQ pkg)  | 18               | 18               | 99               | 99               | 3000                             | 125                             | 150                    | 150                   | 100                  |

## MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT):

| Model                  | Current (mA)        |                     | Power (mW)          |                     | Isolation<br>Voltage<br>at 60 sec<br>Vrms | Max<br>Operating<br>Ambient<br>Temp (°C) | Max<br>Junction<br>Temp<br>(°C) | Max<br>Storage<br>Temp<br>(°C) | Max<br>Data<br>Rate<br>(Mbps) |
|------------------------|---------------------|---------------------|---------------------|---------------------|-------------------------------------------|------------------------------------------|---------------------------------|--------------------------------|-------------------------------|
|                        | Encoder<br>(Side 1) | Decoder<br>(Side 2) | Encoder<br>(Side 1) | Decoder<br>(Side 2) |                                           |                                          |                                 |                                |                               |
| IS07742FT              | 19                  | 19                  | 288                 | 101                 | 5000                                      | 125                                      | 150                             | 150                            | 100                           |
| IS07742T               | 19                  | 19                  | 288                 | 101                 | 5000                                      | 125                                      | 150                             | 150                            | 100                           |
| IS07742U<br>(DUW pkg)  | 18                  | 18                  | 99                  | 99                  | 5700                                      | 125                                      | 150                             | 150                            | 100                           |
| IS07760<br>(16DBQ pkg) | 1.5                 | 7.4                 | 8.4                 | 40.4                | 3000                                      | 125                                      | 150                             | 150                            | 100                           |
| IS07760<br>(16DW pkg)  | 1.5                 | 7.4                 | 8.4                 | 40.4                | 5700                                      | 125                                      | 150                             | 150                            | 100                           |
| IS07761<br>(16DBQ pkg) | 2.5                 | 6.4                 | 13.9                | 34.9                | 3000                                      | 125                                      | 150                             | 150                            | 100                           |
| IS07761<br>(16DW pkg)  | 2.5                 | 6.4                 | 13.9                | 34.9                | 5700                                      | 125                                      | 150                             | 150                            | 100                           |
| IS07762<br>(16DBQ pkg) | 3.5                 | 5.4                 | 19.4                | 29.4                | 3000                                      | 125                                      | 150                             | 150                            | 100                           |

## MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT):

| Model                 | Current (mA)     |                  | Power (mW)       |                  | Isolation Voltage at 60 sec Vrms | Max Operating Ambient Temp (°C) | Max Junction Temp (°C) | Max Storage Temp (°C) | Max Data Rate (Mbps) |
|-----------------------|------------------|------------------|------------------|------------------|----------------------------------|---------------------------------|------------------------|-----------------------|----------------------|
|                       | Encoder (Side 1) | Decoder (Side 2) | Encoder (Side 1) | Decoder (Side 2) |                                  |                                 |                        |                       |                      |
| IS07762 (16DW pkg)    | 3.5              | 5.4              | 19.4             | 29.4             | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07763 (16DBQ pkg)   | 4.5              | 4.5              | 24.4             | 24.4             | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS07763 (16DW pkg)    | 4.5              | 4.5              | 24.4             | 24.4             | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07810               | 3                | 8                | 16.5             | 44               | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07820               | 4                | 16               | 22               | 88               | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07820LL             | 8.2              | 21               | 45.1             | 115.5            | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07821               | 11               | 11               | 60.5             | 60.5             | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07821LL             | 14.1             | 14.1             | 77.6             | 77.6             | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07821LLS            | 16.4             | 16.4             | 90.2             | 90.2             | 5700                             | 125                             | 150                    | 150                   | 150                  |
| IS07830               | 6                | 23               | 33               | 126.5            | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07831               | 12               | 17               | 66               | 93.5             | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07840               | 7                | 31               | 38.5             | 170.5            | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07841               | 13               | 25               | 71.5             | 137.5            | 5700                             | 125                             | 150                    | 150                   | 100                  |
| IS07842               | 18               | 18               | 99               | 99               | 5700                             | 125                             | 150                    | 150                   | 100                  |
| ISOM8110              | 50               | 50               | 140              | 150              | 3750                             | 125                             | 150                    | 150                   | --                   |
| ISOM8110 (DFS pkg)    | 50               | 50               | 140              | 150              | 5000                             | 125                             | 150                    | 150                   | --                   |
| ISOM8111              | 50               | 50               | 140              | 150              | 3750                             | 125                             | 150                    | 150                   | --                   |
| ISOM8111 (DFS pkg)    | 50               | 50               | 140              | 150              | 5000                             | 125                             | 150                    | 150                   | --                   |
| ISOM8112              | 50               | 50               | 140              | 150              | 3750                             | 125                             | 150                    | 150                   | --                   |
| ISOM8112 (DFS pkg)    | 50               | 50               | 140              | 150              | 5000                             | 125                             | 150                    | 150                   | --                   |
| ISOM8113              | 50               | 50               | 140              | 150              | 3750                             | 125                             | 150                    | 150                   | --                   |
| ISOM8113 (DFS pkg)    | 50               | 50               | 140              | 150              | 5000                             | 125                             | 150                    | 150                   | --                   |
| ISOM8115              | 50               | 50               | 140              | 150              | 3750                             | 125                             | 150                    | 150                   | --                   |
| ISOM8115 (DFS pkg)    | 50               | 50               | 140              | 150              | 5000                             | 125                             | 150                    | 150                   | --                   |
| ISOM8116              | 50               | 50               | 140              | 150              | 3750                             | 125                             | 150                    | 150                   | --                   |
| ISOM8116 (DFS pkg)    | 50               | 50               | 140              | 150              | 5000                             | 125                             | 150                    | 150                   | --                   |
| ISOM8117              | 50               | 50               | 140              | 150              | 3750                             | 125                             | 150                    | 150                   | --                   |
| ISOM8117 (DFS pkg)    | 50               | 50               | 140              | 150              | 5000                             | 125                             | 150                    | 150                   | --                   |
| ISOM8118              | 50               | 50               | 140              | 150              | 3750                             | 125                             | 150                    | 150                   | --                   |
| ISOM8118 (DFS pkg)    | 50               | 50               | 140              | 150              | 5000                             | 125                             | 150                    | 150                   | --                   |
| ISOM8610              | 20               | 150              | 36               | 274              | 3750                             | 125                             | 150                    | 150                   | --                   |
| ISOM8710              | 20               | 2                | 50               | 20               | 3750                             | 125                             | 150                    | 150                   | 25                   |
| ISOM8711              | 20               | 2                | 50               | 20               | 3750                             | 125                             | 150                    | 150                   | 25                   |
| IS0S141 (16DBQ Pkg)   | 3.5              | 5.7              | 18.8             | 31.3             | 3000                             | 125                             | 150                    | 150                   | 100                  |
| IS0USB111 (16DW Pkg)  | 13               | 15.3             | 72               | 85               | 5700                             | 125                             | 150                    | 150                   | 12                   |
| IS0USB111 (DWX pkg)   | 13               | 15.3             | 72               | 85               | 5700                             | 125                             | 150                    | 150                   | 12                   |
| IS0USB111B (16DW Pkg) | 13               | 15.3             | 72               | 85               | 3000                             | 125                             | 150                    | 150                   | 12                   |
| IS0USB211 (28DP Pkg)  | 112              | 112              | 616              | 616              | 5700                             | 125                             | 150                    | 150                   | 480                  |
| IS0USB211B (28DP Pkg) | 112              | 112              | 616              | 616              | 3000                             | 125                             | 150                    | 150                   | 480                  |
| ISOW1044 (20-DFM pkg) | 90               | 104              | 490              | 570              | 5000                             | 125                             | 150                    | 150                   | 10                   |

## MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT):

| Model                 | Current (mA)     |                  | Power (mW)       |                  | Isolation Voltage at 60 sec Vrms | Max Operating Ambient Temp (°C) | Max Junction Temp (°C) | Max Storage Temp (°C) | Max Data Rate (Mbps) |
|-----------------------|------------------|------------------|------------------|------------------|----------------------------------|---------------------------------|------------------------|-----------------------|----------------------|
|                       | Encoder (Side 1) | Decoder (Side 2) | Encoder (Side 1) | Decoder (Side 2) |                                  |                                 |                        |                       |                      |
| ISOW1412              | 90               | 104              | 490              | 570              | 5000                             | 125                             | 150                    | 150                   | 10                   |
| ISOW1432 (20-DFM pkg) | 93               | 111              | 510              | 610              | 5000                             | 125                             | 150                    | 150                   | 12                   |
| ISOW3080 (DWE pkg)    | 95               | 80               | 339              | 285              | 5000                             | 125                             | 150                    | 150                   | 0.5                  |
| ISOW3080P (DWE pkg)   | 130              | 130              | 710              | 710              | 5000                             | 125                             | 150                    | 150                   | 0.5                  |
| ISOW3086 (DWE pkg)    | 95               | 80               | 339              | 285              | 5000                             | 125                             | 150                    | 150                   | 12                   |
| ISOW3086P (DWE pkg)   | 130              | 130              | 710              | 710              | 5000                             | 125                             | 150                    | 150                   | 12                   |
| ISOW6440 (DWE pkg)    | 32.4             | 19.1             | 178              | 105              | 5000                             | 125                             | 150                    | 150                   | 150                  |
| ISOW6441 (DWE pkg)    | 32.4             | 19.1             | 178              | 105              | 5000                             | 125                             | 150                    | 150                   | 150                  |
| ISOW6442 (DWE pkg)    | 32.4             | 19.1             | 178              | 105              | 5000                             | 125                             | 150                    | 150                   | 150                  |
| ISOW6443 (DWE pkg)    | 32.4             | 19.1             | 178              | 105              | 5000                             | 125                             | 150                    | 150                   | 150                  |
| ISOW6444 (DWE pkg)    | 32.4             | 19.1             | 178              | 105              | 5000                             | 125                             | 150                    | 150                   | 150                  |
| ISOW7721              | 135              | 135              | 740              | 740              | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7740              | 135              | 135              | 740              | 740              | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7741              | 135              | 135              | 740              | 740              | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7742              | 135              | 135              | 740              | 740              | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7743              | 135              | 135              | 740              | 740              | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7744              | 135              | 135              | 740              | 740              | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7820              | 160              | 60               | 275              | 275              | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7821              | 160              | 60               | 275              | 275              | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7822              | 160              | 60               | 275              | 275              | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7840              | 80               | 30               | 137.5            | 137.5            | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7841              | 80               | 30               | 137.5            | 137.5            | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7842              | 80               | 30               | 137.5            | 137.5            | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7843              | 80               | 30               | 137.5            | 137.5            | 5000                             | 125                             | 150                    | 150                   | 100                  |
| ISOW7844              | 80               | 30               | 137.5            | 137.5            | 5000                             | 125                             | 150                    | 150                   | 100                  |
| SN6720 (DWV pkg)      | 1.9              | 4.8              | 10               | 26               | 5000                             | 125                             | 150                    | 150                   | 50                   |
| SN6741 (DW pkg)       | 2.4              | 4                | 13               | 22               | 5000                             | 125                             | 150                    | 150                   | 50                   |
| SN6742 (DW pkg)       | 3.3              | 3.3              | 18               | 18               | 5000                             | 125                             | 150                    | 150                   | 50                   |
| SN7710 (D pkg)        | 3                | 8                | 16.5             | 44               | 3000                             | 125                             | 150                    | 150                   | 100                  |
| SN7720 (D pkg)        | 1.6              | 7                | 10               | 40               | 3000                             | 125                             | 150                    | 150                   | 100                  |
| SN7721 (D pkg)        | 4.5              | 4.5              | 25               | 25               | 3000                             | 125                             | 150                    | 150                   | 100                  |
| SN7741 (DW pkg)       | 13               | 25               | 71.5             | 137.5            | 5700                             | 125                             | 150                    | 150                   | 100                  |
| SN7742 (DW pkg)       | 18               | 18               | 99               | 99               | 5700                             | 125                             | 150                    | 150                   | 100                  |
| SN7741 (DBQ pkg)      | 13               | 25               | 71.5             | 137.5            | 3000                             | 125                             | 150                    | 150                   | 100                  |

## MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT):

| Model             | Current (mA)     |                  | Power (mW)       |                  | Isolation Voltage at 60 sec Vrms | Max Operating Ambient Temp (°C) | Max Junction Temp (°C) | Max Storage Temp (°C) | Max Data Rate (Mbps) |
|-------------------|------------------|------------------|------------------|------------------|----------------------------------|---------------------------------|------------------------|-----------------------|----------------------|
|                   | Encoder (Side 1) | Decoder (Side 2) | Encoder (Side 1) | Decoder (Side 2) |                                  |                                 |                        |                       |                      |
| SN003021 (8D pkg) | 4.5              | 4.5              | 25               | 25               | 3000                             | 125                             | 150                    | 150                   | 100                  |
| SN005721          | 5.5              | 5.5              | 30.3             | 30.3             | 5700                             | 125                             | 150                    | 150                   | 100                  |
| SN1506011         | 12               | 17               | 66               | 93.5             | 5700                             | 125                             | 150                    | 150                   | 100                  |
| TPSI2140-Q1       | 12               | --               | 50               | --               | 3750 Vrms / 5303 Vdc             | 125                             | 150                    | 150                   | --                   |
| TPSI2072-Q1       | 12               | --               | 50               | --               | 3750 Vrms / 5303 Vdc             | 125                             | 150                    | 150                   | --                   |

(\$) - For ambient temperatures higher than 25°C and up to T<sub>moa</sub>, refer to manufacturer's specifications and/or thermal derating curve data for complete electrical ratings.

## GENERAL:

These non-optical isolator devices consist of a transmitter coupled to a receiver. The transmitter and receiver are separated by an insulating barrier. Internal chips are connected to lead frames that are molded into the enclosure.

**TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):**

Use - For use only in products where the acceptability of the combination is determined by UL LLC.

USR indicates this product was investigated under the UL Standard for Safety for Optical Isolators, UL 1577, Fifth Edition, revised July 6, 2023.

CNR indicates this product was investigated under the Canadian Certification Notice, CSA Component Acceptance Service No. 5A, dated January 23, 1998.

Conditions of Acceptability - Each device shall be reviewed with respect to the following conditions of acceptability:

1. The capability of the device to control a load has not been investigated.
2. These devices should be installed in a suitable end product enclosure.
3. The maximum junction temperature shall not be exceeded.
4. **For single protection devices, the insulation to the case has not been evaluated. For double protection devices, the insulation to the case has been evaluated to the isolation voltage specified in the ratings table.**
- \*5. In addition to meeting single protection requirements, double protection optical isolators have also been investigated for use in up to 250 V, 50/60 Hz circuits in audio, video, and similar equipment in applications in which breakdown of the optical isolator may result in a risk of fire, electrical shock, or injury to persons.**

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