

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6901616

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
LINEAR TECHNOLOGY HOLDING LLC		11/05/2018
RECEIVING PARTY DATA		
Name:	ANALOG DEVICES INTERNATIONAL UNLIMITED COMPANY	
Street Address:	BAY F1 RAHEEN INDUSTRIAL ESTATE	
Internal Address:	CO. LIMERICK	
City:	LIMERICK	
State/Country:	IRELAND	
PROPERTY NUMBERS Total: 40		
Property Type	Number	
Application Number:	15712779	
Application Number:	15712839	
Application Number:	15726154	
Application Number:	16024357	
Application Number:	62659577	
Application Number:	16127928	
Application Number:	62627051	
Application Number:	16127876	
Application Number:	16141308	
Application Number:	62518338	
Application Number:	15713348	
Application Number:	15823477	
Application Number:	15701380	
Application Number:	62625279	
Application Number:	16249692	
Application Number:	15997557	
Application Number:	15847853	
Application Number:	15865178	
Application Number:	15870784	
Application Number:	62633500	

PATENT

Property Type	Number
Application Number:	62671391
Application Number:	15671080
Application Number:	15672243
Application Number:	15795181
Application Number:	15675632
Application Number:	15957845
Application Number:	62507978
Application Number:	15727561
Application Number:	62641834
Application Number:	16273659
Application Number:	62665265
Application Number:	16396566
Application Number:	15970406
Application Number:	15960246
Application Number:	16016301
Application Number:	16126843
Application Number:	16148698
PCT Number:	US2017055996
PCT Number:	US2017046797
PCT Number:	US2017045974

CORRESPONDENCE DATA

Fax Number: (612)339-3061

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 6123593272

Email: jehlers@slwip.com

Correspondent Name: SCHWEGMAN LUNDBERG & WOESSNER, P.A.

Address Line 1: 121 SOUTH 8TH STREET

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	5867.000001
NAME OF SUBMITTER:	JAMIE A EHLERS
SIGNATURE:	/Jamie A. Ehlers/
DATE SIGNED:	09/05/2021

Total Attachments: 28

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DATED November 5, 2018

LINEAR TECHNOLOGY HOLDING LLC

AND

ANALOG DEVICES INTERNATIONAL UNLIMITED COMPANY

DEED OF TRANSFER

THIS DEED is made the 5th day of November 2018 and made between:

- (1) **Linear Technology Holding LLC**, a Delaware limited liability company (**LT Holding LLC**); and
- (2) **Analog Devices International Unlimited Company**, an Irish incorporated private unlimited company (**ADINTL**).

WHEREAS

- A. It has been agreed between the parties hereto that LT Holding LLC will make a contribution of Intellectual Property (as defined below) to ADINTL upon the terms and conditions hereinafter set out.

1. INTERPRETATION

1.1. Definitions:

For the purpose of this Deed,

"Controlled" means, with respect to any IP Right or Know-How, that LT Holding LLC has the right through its ownership or license of such IP Right or Know-How, to grant a license or other right under or to such item without violating the terms of any agreement with any third party;

"Intellectual Property" means all IP Rights, Know-How and related intangibles;

"IP Rights" means any patent, copyright, mark work, or utility model, any application or registration for any patent, copyright, mark work, or utility model, or any substitution, divisional, continuation, continuation-in-part, reissue, re-examination or extension (including supplementary protection certificate) of any of the foregoing, subsisting anywhere in the world;

"Know-How" means all proprietary information relating to electronic device technology, including trade secrets, technical information and knowledge, including specifications, drawings, technical data and details of manufacturing processes, and all associated data, but excluding IP Rights.

- 1.2. Headings are inserted for convenience only and do not affect the interpretation of the Deed.
- 1.3. Unless the context otherwise requires, words importing the singular include the plural and vice versa, words importing the masculine include the feminine, and words importing persons include corporations.
- 1.4. References to writing or similar expressions include where the context so admits transmission by telecopier or comparable means of communication.
- 1.5. References to any document include that document as amended or supplemented from time to time.

2. CONTRIBUTION

- 2.1. LT Holding LLC agrees and undertakes as of the Effective Date to make an irrevocable, non-repayable, unconditional contribution of all its Intellectual Property (including all rights attaching or accruing thereto), to ADINTL (the **Contribution**) and the parties agree to enter into the:

- 2.1.1. assignment of rights agreement between LT Holding LLC and ADINTL to be dated as of the Effective Date, as set out in Schedule 1 of this Deed.

3. EFFECTIVE DATE


The transactions contemplated hereunder shall take effect as of November 5, 2018 (the **Effective Date**).

4. **MISCELLANEOUS**

- 4.1. **Further Assurance:** LT Holding LLC shall (and shall procure that any other necessary parties will) as soon as possible from the date hereof do all such acts and things as may be required to transfer to ADINTL all its Intellectual Property and to effect the Contribution.
- 4.2. **Invalidity:** If any term or provision in this Deed is held to be illegal or unenforceable, in whole or in part, under any enactment or rule of law, such term or provision or part will, to that extent, be deemed not to form part of this Deed but the enforceability of the remainder of this Deed will not be affected.
- 4.3. **Entire Agreement:** This Deed embodies the entire agreement between the parties and supersedes all previous statements, representations and agreements between the parties relating to the subject matter of this Deed.
- 4.4. **Counterparts:** This Deed may be entered into in any number of counterparts and by the parties to it on separate counterparts, each of which when so executed and delivered will be an original, but all the counterparts will together constitute one and the same instrument.
- 4.5. **Notices:** Any notice required to be given by any Party to another Party shall be in writing and will be validly served if delivered or sent by prepaid registered letter to its address given herein or such other address as may from time to time be notified for this purpose, and any notice so served will be deemed to have been served, if delivered, upon delivery and if posted, (forty-eight) 48 hours after the time at which it was posted.
- 4.6. **Governing Law and Submission to Jurisdiction:** This Deed and the documents to be entered into pursuant to it will be governed by and interpreted in accordance with the laws of the State of Delaware, without regard to any conflict of laws principles that would require the application of the laws of any other jurisdiction. All the parties irrevocably agree that the courts of the State of Delaware are to have exclusive jurisdiction to settle any disputes which may arise out of or in connection with this Deed and such documents.

IN WITNESS whereof the parties have executed this Deed as of the date and year first herein written.

Linear Technology Holding LLC



Ali Husain, President

Kevin Lanouette, Secretary

Analog Devices International Unlimited Company

Denis Doyle, Director

Leo McHugh, Director/Secretary

[Signature Page to Step 8(h)(3) Deed of Transfer]

IN WITNESS whereof the parties have executed this Deed as of the date and year first herein written.

Linear Technology Holding LLC

Ali Husain, President


Kevin Languette, Secretary

Analog Devices International Unlimited Company

Denis Doyle, Director

Leo McHugh, Director/Secretary

[Signature Page to Step 8(h)(3) Deed of Transfer]

IN WITNESS whereof the parties have executed this Deed as of the date and year first herein written.

Linear Technology Holding LLC

Ali Husain, President

Kevin Lanouette, Secretary

Analog Devices International Unlimited Company



Denis Doyle, Director

Leo McHugh, Director/Secretary

[Signature Page to Step 8(h)(3) Deed of Transfer]

IN WITNESS whereof the parties have executed this Deed as of the date and year first herein written.

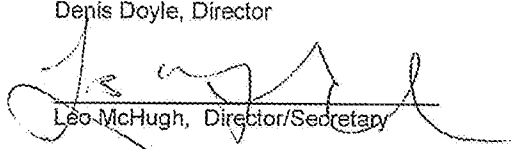
Linear Technology Holding LLC

Ali Husain, President

Kevin Lanouette, Secretary

Analog Devices International Unlimited Company

Denis Doyle, Director



Leo McHugh, Director/Secretary

[Signature Page to Step 8(h)(3) Deed of Transfer]

SCHEDULE 1

IP Assignment

ASSIGNMENT OF RIGHTS

This ASSIGNMENT OF RIGHTS (this "Assignment") is made effective as of November 5, 2018 (the "Effective Date") by and between Linear Technology Holding LLC, a Delaware limited liability company ("LT Holding LLC") and (2) Analog Devices International Unlimited Company, an Irish incorporated private unlimited company ("ADINTL").

WHEREAS, LT Holding LLC owns certain Intellectual Property (as defined below); and

WHEREAS, LT Holding LLC wishes to transfer LT Holding LLC's entire right, title and interest in and to such Intellectual Property to ADINTL.

NOW THEREFORE, in consideration of the mutual agreements and covenants set forth herein and other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, and intending to be legally bound hereby, the parties agree as follows:

1. Certain Definitions.

(a) "Intellectual Property" means all IP Rights, Know-How, and related intangibles.

(b) "IP Rights" means any patent, copyright, mask work, or utility model, any application or registration for any patent, copyright, mask work or utility model, or any substitution, divisional, continuation, continuation-in-part, reissue, reexamination or extension (including supplementary protection certificate) of any of the foregoing, subsisting anywhere in the world.

(c) "Know-How" means all proprietary information relating to electronic device technology, including trade secrets, technical information and knowledge, including specifications, drawings, technical data and details of manufacturing processes, and all associated data, but excluding IP Rights.

2. For \$1 consideration, LT Holding LLC hereby assigns to ADINTL all of LT Holding LLC's right, title and interest in and to all Intellectual Property owned by LT Holding LLC as of the Effective Date, including the right to seek and obtain damages for any past infringement of the IP Rights and/or any past misappropriation of the Know-How, and including all rights and obligations of LT Holding LLC under any licenses or other encumbrances in force with respect to such Intellectual Property.

3. For clarity, the assignment under Paragraph 2 includes the sole right to file (a) substitutions, divisionals, continuations, continuations-in-part, reissues, reexaminations, extensions (including supplementary protection certificate) of and foreign counterparts to any of the IP Rights and (b) applications and/or registrations for any patent, copyright, mask work, utility model, trademark, and/or any other intellectual and/or industrial property right in respect of any of the Know-How, in each case ((a) and (b)) anywhere in the world (collectively "Related Rights").

4. LT Holding LLC hereby authorizes and requests the United States Commissioner for Patents and any official of any country and/or countries foreign to the United States whose duty it is to issue patents and/or other evidence and/or forms of intellectual and/or industrial property protection on the IP Rights applications and the Related Rights to issue the same to ADINTL, its successors, legal representatives and assigns.

5. LT Holding LLC hereby represents and warrants that it has full right to convey the entire interests herein assigned, and that it has not executed, and will not execute, any agreement in conflict herewith.

6. LT Holding LLC hereby covenants that it will communicate to ADINTL, its successors, legal representatives and assigns, any facts known to LT Holding LLC respecting the Intellectual Property and the Related Rights, testify in any legal proceeding, sign all lawful papers, make all rightful oaths, and generally do everything requested by ADINTL to aid ADINTL, its successors, legal representatives and assigns, to obtain full legal and beneficial title to, and enforce proper protection for, the Intellectual Property and the Related Rights anywhere in the world.

7. LT Holding LLC hereby agrees that ADINTL is the intended beneficiary of this instrument and may enforce its provisions against LT Holding LLC.

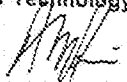
8. This instrument shall be governed by and interpreted in accordance with the laws of the State of Delaware, without regard to any conflict of laws principles that would require the application of the laws of any other jurisdiction; provided, however, that any matter arising under this instrument that relates solely to a patent granted or patent application filed in a jurisdiction shall be governed by the laws of such jurisdiction applicable to such patent or patent application.

9. This instrument may be executed or accepted in any number of counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.

[Signature page follows]

IN WITNESS WHEREOF, each party has caused this Assignment to be executed in its name by its properly and duly authorized officer or representative as of the date first set forth above:

Linear Technology Holding LLC



Ali Husain, President

Kevin Lanouette, Secretary

Analog Devices International Unlimited Company

Denis Doyle, Director

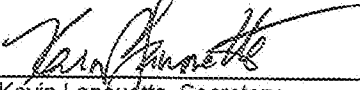
Leo McHugh, Director/Secretary

[Signature page to Step 8(h)(3) IP Assignment]

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Linear Technology Holding LLC

Ali Husain, President



Kevin Lanouette, Secretary

Analog Devices International Unlimited Company

Denis Doyle, Director

Leo McHugh, Director/Secretary

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[Signature page to Step 8(h)(3) IP Assignment]

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Kevin Lanouette, Secretary

Analog Devices International Unlimited Company

Denis Doyle, Director


Leo McHugh, Director/Secretary

[Signature page to Step 8(h)(3) IP Assignment]

Assignee Report

FILE NUMBER	MATTER TYPE	SERIAL NUMBER	TITLE	DATE FILED	STATUS	GRANT DATE	PATENT NUMBER	CLIENT NAME	CURRENT ASSIGNEE
5867.001 US1	Utility - ORG	15/712,77 9	LED DIMMING	Sep 22, 2017	Issued	Nov 6, 2018	10,123,38 4	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.002 US1	Utility - ORG	15/712,83 9	LED DIMMING	Sep 22, 2017	Issued	Feb 5, 2019	10,201,05 2	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.003 US1	Utility - ORG	15/726,15 4	LED DIMMING	Oct 5, 2017	Issued	Nov 20, 2018	10,136,48 8	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.005 US1	Utility - ORG	16/024,35 7	DIFFEREN TIAL CONTROL LER WITH REGULAT ORS	Jun 29, 2018	Issued	Jan 21, 2020	10,541,60 8	Linear Technology Holding LLC	Linear Technology Holding LLC

5867.024 PRV	Prov - ORG	62/659,57 7	Negative Charge Pump Doubling Output Voltage Range for Step-Up LED Driver	Apr 18, 2018	Expired				Linear Technology Holding LLC	Linear Technology Holding LLC
5867.024 US1	Utility - NPNEW	16/127,92 8	NEGATIVE CHARGE PUMP DOUBLIN G OUTPUT VOLTAGE RANGE FOR STEP- UP LED DRIVER	Sep 11, 2018	Issued	Jul 23, 2019	10,362,64 5		Linear Technology Holding LLC	Linear Technology Holding LLC
5867.025 PRV	Prov - ORG	62/627,05 1	Direct Injection For Load Current Feedforw ard For Fast Transient Response	Feb 6, 2018	Expired				Linear Technology Holding LLC	Linear Technology Holding LLC

5867.025 US1	Utility - NPNEW	16/127,87 6	LOAD CURRENT FEEDFOR WARD SCHEMES FOR CURRENT- MODE CONROLL ED POWER CONVERT ERS	Sep 11, 2018	Issued	Jun 16, 2020	10,686,37 9	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.027 US1	Utility - ORG	16/141,30 8	BIDIRECTI ONAL SIGNAL SEPARATI ON	Sep 25, 2018	Issued	Oct 27, 2020	10,817,45 8	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.055 PRV	Prov - ORG	62/518,33 8	APPARAT US AND METHOD FOR SOFT- CHARGIN G SWITCHE D CAPACITO RS IN POWER CONVERT ER CIRCUITS	Jun 12, 2017	Expired			Linear Technology Holding LLC	Linear Technology Holding LLC

5867.055 US1	Utility - NPREG	15/713,348	SOFT- CHARGIN G OF SWITCHE D CAPACITO RS IN POWER CONVERT ER CIRCUITS	Sep 22, 2017	Issued	Jul 17, 2018	10,027,223	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.065 US1	Utility - ORG	15/823,477	PHASE LOCKED LOOP CALIBRATI ON FOR SYNCHRO NIZING NON- CONSTAN T FREQUEN CY SWITCHIN G REGULAT ORS	Nov 27, 2017	Issued	Feb 26, 2019	10,218,366	Linear Technology Holding LLC	Linear Technology Holding LLC

5867.066 US1	Utility - ORG	15/701,380	PASS THROUGH REGULATI ON OF BUCK- BOOST REGULAT OR	Sep 11, 2017	Issued	Nov 20, 2018	10,135,340	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.071 PRV	Prov - ORG	62/625,279	TRANSCIE VER UTILIZING ISOLATED SIGNALIN G AND CONCEAL ED ISOLATED POWER TO ATTAIN HIGH COMMON MODE WORKING VOLTAGE AND TOLERAN CE	Feb 1, 2018	Expired			Linear Technology Holding LLC	Linear Technology Holding LLC

5867.071 US1	Utility - NPNEW	16/249,69 2	TRANSCIE VER UTILIZING ISOLATED SIGNALIN G AND CONCEAL ED ISOLATED POWER TO ATTAIN HIGH COMMON MODE WORKING VOLTAGE AND TOLERAN CE	Jan 16, 2019	Issued	May 12, 2020	10,651,89 4	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.075 US1	Utility - ORG	15/997,55 7	MULTI- CHIP TIMING ALIGNME NT TO A COMMON REFERENC E SIGNAL	Jun 4, 2018	Issued	Dec 3, 2019	10,496,12 7	Linear Technology Holding LLC	Linear Technology Holding LLC

5867.077 US1	Utility - ORG	15/847,853	MINIMIZING BODY DIODE CONDUCTION IN SYNCHRONOUS CONVERTERS	Dec 19, 2017	Issued	May 14, 2019	10,291,128	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.081 US1	Utility - ORG	15/865,178	WILKINSON COMBINER WITH COUPLED INDUCTORS	Jan 8, 2018	Issued	Mar 31, 2020	10,608,313	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.086 US1	Utility - ORG	15/870,784	MEASUREMENT SYNCHRONIZATION ACROSS NETWORKS	Jan 12, 2018	Abandoned			Linear Technology Holding LLC	Linear Technology Holding LLC
5867.099 PRV	Prov - ORG	62/633,500	AVERAGE D REFERENCE WITH FAULT MONITORING	Feb 21, 2018	Expired			Linear Technology Holding LLC	Linear Technology Holding LLC

5867.101 PRV	Prov - ORG	62/671,391	HIGH CONVERSION-RATIO HYBRID SWITCHED POWER CONVERTER	May 14, 2018	Expired				Linear Technology Holding LLC	Linear Technology Holding LLC
5867.102 US1	Utility - ORG	15/671,080	REFERENCE SIGNAL CORRECTION CIRCUIT	Aug 7, 2017	Issued	Feb 11, 2020	10,557,894		Linear Technology Holding LLC	Linear Technology Holding LLC
5867.102 WO1	Utility - ORG	PCT/US2017/045974	STRESS- IMPAIRED SIGNAL CORRECTION CIRCUIT	Aug 8, 2017	Completed				Linear Technology Holding LLC	Linear Technology Holding LLC
5867.103 US1	Utility - ORG	15/672,243	OPEN CIRCUIT- BASED RX POWER LIMITER FOR WIRELESS POWER TRANSFER	Aug 8, 2017	Issued	Apr 7, 2020	10,615,626		Linear Technology Holding LLC	Linear Technology Holding LLC

5867.109 US1	Utility - ORG	15/795,181	HIGH SPEED ON-CHIP PRECISION BUFFER WITH SWITCHES D-LOAD REJECTION	Oct 26, 2017	Issued	Jul 30, 2019	10,367,486	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.110 US1	Utility - ORG	15/675,632	SOFT-START CIRCUIT FOR SWITCHES D RESONANT POWER CONVERTERS	Aug 11, 2017	Issued	Jan 15, 2019	10,181,804	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.110 WO1	Utility - ORG	PCT/US2017/046797	SOFT-START CIRCUIT FOR SWITCHES D RESONANT POWER CONVERTERS	Aug 14, 2017	Abandoned			Linear Technology Holding LLC	Linear Technology Holding LLC

5867.116 US1	Utility - ORG	15/957,845	LIGHT- LOAD EFFICIENCY IMPROVE MENT OF HYBRID SWITCHED CAPACITOR CONVERTER	Apr 19, 2018	Issued	Aug 20, 2019	10,389,237	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.124 PRV	Prov - ORG	62/507,978	COORDINATED EVENT SEQUENCING	May 18, 2017	Expired			Linear Technology Holding LLC	Linear Technology Holding LLC
5867.124 US1	Utility - NPREG	15/727,561	COORDINATED EVENT SEQUENCING	Oct 6, 2017	Issued	Jan 7, 2020	10,528,501	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.124 WO1	Utility - ORG	PCT/US2017/055996	COORDINATED EVENT SEQUENCING	Oct 10, 2017	Completed			Linear Technology Holding LLC	Linear Technology Holding LLC

5867.126 PRV	Prov - ORG	62/641,834	ZERO-VOLTAGE SWITCHING HYBRID SWITCHER CAPACITOR CONVERTER	Mar 12, 2018	Expired			Linear Technology Holding LLC	Linear Technology Holding LLC
5867.126 US1	Utility - NPNEW	16/273,659	ZERO-VOLTAGE SWITCHING HYBRID SWITCHER CAPACITOR CONVERTER	Feb 12, 2019	Issued	Dec 22, 2020	10,873,260	Linear Technology Holding LLC	Linear Technology Holding LLC

5867.667 PRV	Prov - ORG	62/665,26 5	SIMULTA NEOUS POWER INJECTION ON LINE AND PHY SIDE WITH IMPROVE D DIPLEXER NETWORK FOR DATA AND POWER TRANSMIS SION ON SAME CABLE	May 1, 2018	Expired				Linear Technology Holding LLC	Linear Technology Holding LLC
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5867.667 US1	Utility - NPREG	16/396,566	POWER OVER DATA LINES SYSTEM USING PAIR OF DIFFEREN TIAL MODE CHOKES FOR COUPLING DC VOLTAGE AND ATTENUA TING COMMON MODE NOISE	Apr 26, 2019	Issued	Mar 17, 2020	10,594,519	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.669 US1	Utility - ORG	15/970,406	SELF- BIASING IDEAL DIODE CIRCUIT	May 3, 2018	Issued	Jun 25, 2019	10,333,425	Linear Technology Holding LLC	Linear Technology Holding LLC

5867.670 US1	Utility - ORG	15/960,246	DETECTING VALUE OF OUTPUT CAPACITOR IN SWITCHING REGULATOR	Apr 23, 2018	Issued	Jan 8, 2019	10,175,278	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.676 US1	Utility - NPREG	16/016,301	TERMINATION FOR WIRE PAIR CARRYING DC AND DIFFERENTIAL SIGNALS	Jun 22, 2018	Issued	Aug 13, 2019	10,382,216	Linear Technology Holding LLC	Linear Technology Holding LLC
5867.677 US1	Utility - CIP	16/126,843	TERMINATION FOR WIRE PAIR CARRYING DC AND DIFFERENTIAL SIGNALS	Sep 10, 2018	Issued	Sep 24, 2019	10,425,237	Linear Technology Holding LLC	Linear Technology Holding LLC

5867.678 US1	Utility - CIP	16/148,698	TERMINATION FOR WIRE PAIR CARRYING DC AND DIFFERENTIAL SIGNALS USING ISOLATION TRANSFORMER WITH SPLIT PRIMARY AND SECONDARY WINDINGS	Oct 1, 2018	Issued	Jun 25, 2019	10,333,742	Linear Technology Holding LLC	Linear Technology Holding LLC
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