## UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF TEXAS MARSHALL DIVISION

CHIP PACKAGING TECHNOLOGIES, LLC,

Plaintiff,

Civil Action No.

JURY TRIAL DEMANDED

v.

INFINEON TECHNOLOGIES AG,

Defendant.

# COMPLAINT FOR PATENT INFRINGEMENT AND DAMAGES AND DEMAND FOR JURY TRIAL

Plaintiff Chip Packaging Technologies, LLC ("Chip Packaging" or "Plaintiff") files this Complaint for Patent Infringement and Damages against Infineon Technologies AG ("Infineon" or "Defendant") and alleges as follows:

# THE PARTIES

1. Chip Packaging is the current owner and assignee of the Asserted Patents.

2. Chip Packaging is a Texas limited liability company with its principal place of business located at 5830 Granite Parkway, Suite #100-216, Plano, TX 75024.

3. Upon information and belief, Infineon is a corporation formed under the laws of the Federal Republic of Germany, with a principal place of business at Am Campeon 1-15, 85579, Neubiberg, Germany.

#### JURISDICTION AND VENUE

4. This civil action arises under the patent laws of the United States, 35 U.S.C. § 1 *et seq.*, including without limitation 35 U.S.C. §§ 271, 281, 283, 284, and 285. Accordingly, this Court has subject matter jurisdiction under, *inter alia*, 28 U.S.C. §§ 1331 and 1338(a).

5. This Court has personal jurisdiction over Defendant. Defendant conducts business and has committed acts of patent infringement in this Judicial District, the State of Texas, and elsewhere in the United States.

6. Plaintiff's causes of action arise, at least in part, from Defendant's contacts with and activities in this District and the State of Texas.

7. Defendant has infringed the Asserted Patents within this District and the State of Texas by making, using, distributing, marketing, offering, and/or importing in or into this District and elsewhere in the State of Texas, products that infringe the Asserted Patents, including the Accused Products. Defendant, directly and through intermediaries, makes, uses, offers, imports, distributes, advertises, promotes, and/or otherwise commercializes such infringing products in or into this District and the State of Texas. Defendant regularly conducts and solicits business in, engages in other persistent courses of conduct in, and/or derives substantial revenue from goods and services provided to residents of this District and the State of Texas.

8. This Court has personal jurisdiction over Defendants pursuant to TEX. CIV. PRAC.
& REM. CODE § 17.041 *et seq*.

9. Personal jurisdiction exists over Defendant because Defendant has minimum contacts with this forum as a result of business regularly conducted within this District and the State of Texas, and, on information and belief, specifically as a result of, at least, committing the tort of patent infringement within this District and the State of Texas.

10. This Court also has personal jurisdiction over Defendant, in part, because Defendant does continuous and systematic business in this District, including by providing infringing products to the residents of this District that Defendant knew would be used within this District, and by soliciting business from the residents of this District.

11. Venue is proper in this Judicial District pursuant to 28 U.S.C. § 1391 because, among other things, Defendant is not a resident in the United States, and thus may be sued in any judicial district pursuant to 28 U.S.C. § 1391(c)(3).

#### THE ASSERTED PATENTS

12. On February 16, 2016, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 9,263,299 (the "299 Patent") entitled "Exposed Die Clip Bond Power Package." A true and correct copy of the 299 Patent is attached hereto as Exhibit A.

13. CPT is the owner and assignee of all right, title, and interest in and to the '299 Patent, including the right to assert all causes of action arising under the '299 Patent and the right to sue and obtain any remedies for past, present, or future infringement.

14. On March 29, 2016, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 9,299,646 (the "'646 Patent") entitled "Lead Frame With Power And Ground Bars." A true and correct copy of the '646 Patent is attached hereto as Exhibit B.

15. Chip Packaging is the owner and assignee of all right, title, and interest in and to the '646 Patent, including the right to assert all causes of action arising under the '646 Patent and the right to sue and obtain any remedies for past, present, or future infringement.

16. On September 4, 2012, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 8,258,611 (the "611 Patent") entitled "Leadframe Structure For Electronic Packages." A true and correct copy of the '611 Patent is attached hereto as Exhibit C.

17. Chip Packaging is the owner and assignee of all right, title, and interest in and to the '611 Patent, including the right to assert all causes of action arising under the '611 Patent and the right to sue and obtain any remedies for past, present, or future infringement.

18. On June 20, 2017, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 9,685,351 (the "351 Patent") entitled "Wire Bond Mold Lock Method And Structure." A true and correct copy of the '351 Patent is attached hereto as Exhibit D.

19. Chip Packaging is the owner and assignee of all right, title, and interest in and to the '351 Patent, including the right to assert all causes of action arising under the '351 Patent and the right to sue and obtain any remedies for past, present, or future infringement.

20. On March 12, 2013, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 8,394,713 (the "713 Patent") entitled "Method Of Improving Adhesion Of Bond Pad Over Pad Metallization With A Neighboring Passivation Layer By Depositing A Palladium Layer." A true and correct copy of the '713 Patent is attached hereto as Exhibit E.

21. Chip Packaging is the owner and assignee of all right, title, and interest in and to the '713 Patent, including the right to assert all causes of action arising under the '713 Patent and the right to sue and obtain any remedies for past, present, or future infringement.

22. Chip Packaging has at all times complied with the marking provisions of 35 U.S.C.§ 287 with respect to the Asserted Patents.

#### FACTUAL ALLEGATIONS

23. The Asserted Patents relate to groundbreaking improvements to semiconductor packaging technologies.

24. The technology in U.S. Patent No. 9,263,299 ("the '299 Patent") was developed by Leonardus Antonius Elisabeth van Gemert and Emil Casey Israel of NXP B.V.

25. The technology in U.S. Patent No. 9,299,646 ("the '646 Patent") was developed by Shailesh Kumar and Piyush Kumar Mishra of Freescale Semiconductor, Inc.

26. The technology in U.S. Patent No. 8,258,611 ("the '611 Patent") was developed by Ronald Schravendeel and Peter Schelwald of NXP B.V.

27. The technology in U.S. Patent No. 9,685,351 ("the '351 Patent") was developed by Leo M. Higgins, III of NXP USA, Inc.

28. The technology in U.S. Patent No. 8,394,713 ("the '713 Patent") was developed by Varughese Mathew of Freescale Semiconductor, Inc.

29. On information and belief, each of the Infineon products identified herein, including the Infineon OPTIREG Buck Regulator product line, the Infineon PROFET Smart High-Side Power Switch product line, the Infineon CoolGaN Integrated Power Stage products, the Infineon TC1782 AUDO MAX Microcontroller, Infineon TLF51801 OPTIREG Asynchronous DC/DC Step-Down Converter, and the Infineon TLE9872 Motix 32-bit Microcontroller have been available for purchase in the United States, including but not limited to, directly from Infineon, through Infineon's website, and/or through Infineon-authorized Americas distributors. By way of example only, the Infineon Buck Regulator products are available for purchase in the United to through Infineon's website through Infineon-authorized Global or Americas distributors:



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We offer the following online ordering options

# TDA38725A0000AUMA1

Products > Power > DC-DC Converters > Integrated POL Voltage Regulators > TDA38725A-0000

	Stock*	Price per unit	Quantity
Infineon Infineon	1137	\$ 4.95	1
	Standard Global Shipping	\$ 4.99	
			🔀 Add to cart

AMERICAS (in stock)	EMEA (in stock)	ASIA (in stock)	JAPAN (in stock)	
Distributor	St	ock*		
DigiKey	50	000	> Order now	
	22	274	> Order now	
WDW	10	00	> Order now	
Δννετ	0		> Order now	
	0		> Order now	
Newark	0		> Order now	

\*stock values are subject to change

See https://www.infineon.com/cms/en/product/power/dc-dc-converters/integrated-pol-voltageregulators/tda38725a-0000/ (last visited 1/27/2025).

<b>DigiKey</b>	Enter keyword or part #	L Upload a Li	at ) Q		Login o REGIS	r TER~ │ ヷ 0 item(s)~
P	Products ~ Manufacturers ~	Resources ~ Request a Quote				Tariff Resource Updates
Product Index > Integrated Circuits (ICs) Infineon Technologies TDA38725A0000AUM	> Power Management (PMIC) > Vol A1	tage Regulators - DC DC Switching Regulators $ ightarrow$				Dark Mode C Share 😋
	TDA38725A0000AUMA1			In-Stock: 5,00	00	
a strenge	DigiKey Part Number	448-TDA38725A0000AUMA1TR-ND - Tape & Reel (TR) 448-TDA38725A0000AUMA1CT-ND - Cut Tape (CT) 448-TDA38725A0000AUMA1DKR-ND - Digi-Reel®		Can ship immedia	itely	
- And Barry	Manufacturer	Infineon Technologies		QUANTITY		
~ ~	Manufacturer Product Number	TDA38725A0000AUMA1				
	Description	OPTIMOS IPOL TDA38640A, TDA38740				
Image shown is a representation only. Exact	Manufacturer Standard Lead Time	8 Weeks		Add to	List	Add to Cart
specifications should be obtained from the product data sheet.	Customer Reference			All prices are in USD		
	Detailed Description	Buck Switching Regulator IC Positive Programmable 0.25V 1 Output 25A 36-PowerVFQFN		Cut Tape (CT) 8	a Digi-Reel®	
	Datasheet	🧫 Datasheet		QUANTITY	UNIT PRICE	EXT PRICE
	EDA/CAD Models	TDA38725A0000AUMA1 Models		1	\$4.65000	\$4.65
				10	\$3.53700	\$35.37
Product Attributes				25	\$3.25720	\$81.43
TYPE	DESCRIPTION	SELECT ALL	-	250	\$2,95040	\$295.04
			0	500	\$2,71582	\$1.357.91
Category	Integrated Circuits (ICs) Power Management (PMIC) Vetters envirtement CP DC Consistence		0	1.000	\$2.64320	\$2,643.20
	voltage Regulators - DC DC Switching R	eguiators	•	2,500	\$2.56656	\$6,416.40
Mfr	Infineon Technologies			All Digi-Reel orders will add a \$7.00 reeling fee.		
Series	OptiMOS <sup>™</sup> IPOL		Topo & Pool (TP)			
Packaging	Tape & Reel (TR) ⑦ Cut Tape (CT) ⑦ Digi-Reel® ⑦				UNIT PRICE	EXT PRICE
Part Status	Active			5,000	\$2.52037	\$12,601.85
Function	Step-Down			Manufacturers	Standard Package	
Output Configuration	Positive					
Topology	Buck					
Output Type	Programmable					
Number of Outputs	1					
Voltage - Input (Min)	3V					
Voltage - Input (Max)	17V					
Voltage - Output (Min/Fixed)	0.25V					
Voltage - Output (Max)	5.12V					
Current - Output	25A					

See

https://www.digikey.com/en/products/detail/infineon-

technologies/TDA38725A0000AUMA1/25595596?curr=usd&utm\_campaign=buynow&utm\_m edium=aggregator&utm\_source=octopart (last visited 1/27/2025). 30. As another example, the Infineon Smart High-Side Power Switch product line are available for purchase in the United States, including but not limited to through Infineon's website through Infineon-authorized Global or Americas distributors:

	> Home > Products > Po	wer > Smart power switches > High-side switches > Power PRC	DFET <sup>™</sup> + 12/24/48V   Automotive smart high-side switch > BTS50010	)-1LUA
	BTS5001	.0-1LUA		🗘 Follow <
	Single channel sma	art high-side power switch providing protective fun	ctions and diagnosis	
•	Overview Parametrics Documents Order	Introducing the new member of the Power PROFET <sup>TII</sup> + smart high-side power switch, embedded in a 8 pin TO diagnosis. It features Reverse ON functionality protecti battery). The power transistor is built by a N-channel p to drive high current loads up to 42 A, for applications I automotive environment.	12 V family, the BTS50010-1LUA is a 1.0 mΩ single channel leadless package, providing protective functions and ng the device in reverse polarity condition (reverse ower MOSFET with charge pump. It is especially designed ike heaters, glow plugs, fans and pumps in the harsh	Buy online           Download Data Sheet           > EN < Share
	Design Support	Summary of Features	Benefits	
	Partners	Low stand-by current	<ul> <li>PRO-SIL<sup>™</sup> ISO 26262-ready for supporting the</li> </ul>	(g)
	Training Support	<ul> <li>Reverse ON for low power dissipation in reverse battery condition</li> </ul>	integrator in evaluation of hardware element acc. to ISO 26262	and Inflacon
		Ground loss protection	Accurate current sensing	Q
		Electrostatic discharge protection (ESD)	<ul> <li>Developed to support dependable power supply and distribution</li> </ul>	
		Optimized electromagnetic compatibility (EMC)		
		<ul> <li>Compatible to cranking pulses</li> </ul>		
		<ul> <li>Integrated diagnostic functions</li> </ul>		
		<ul> <li>Integrated protection functions (Over-current, over- load, over-temperature, over-power)</li> </ul>		
		AEC-Q100 qualification		
		Potential Applications		
		Suitable for resistive, inductive and capacitive loads		
		<ul> <li>Replaces electromechanical relays, fuses and discret a 12 V board net</li> </ul>	te circuits in <b>power distribution</b> and other applications in	
		<ul> <li>Most suitable for application with high current loads</li> </ul>	, such as heating system, fan and pump	
		PWM applications with low frequency		
		Access to ISO 26262-ready documentation:		
		Please register for myinfineon.com with your compa	ny e-mail address.	
		<ul> <li>Please get in touch with your respective Distribution myInfineon account to partner status; this is required</li> </ul>	or Sales contact to request the elevation of your d for access to our MyICP portal.	

			×
We offer the followir	ng online ordering options		
BTS500101LU	IAAUMA1		
Products > Power > Sma Automotive smart high-s	rt power switches > High-side switc ide switch > BTS50010-1LUA	hes > Power PRO	FET™ + 12/24/48V
	Stock*	Price per unit	Quantity
(infineon Infineon	1044	\$ 4.96	1
	Standard Global Shipping	\$ 4.99	
			🃜 Add to cart
AMERICAS (in stock)	EMEA (in stock) ASIA (in stock)	JAPAN (in s	tock)
Distributor	Stock*		
Distributor	Stock* 3739		> Order now
Distributor	Stock* 3739 2088		> Order now > Order now
Distributor	Stock* 3739 2088 0		<ul> <li>&gt; Order now</li> <li>&gt; Order now</li> <li>&gt; Order now</li> </ul>
Distributor	Stock*         3739         2088         0         0         0		<ul> <li>&gt; Order now</li> <li>&gt; Order now</li> <li>&gt; Order now</li> <li>&gt; Order now</li> </ul>
Distributor	Stock*         3739         2088         0         0         0         0         0         0         0		<ul> <li>&gt; Order now</li> </ul>
Distributor	Stock*         3739         2088         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0		<ul> <li>&gt; Order now</li> </ul>

\*stock values are subject to change

\*\*Authorized resellers for overstock, and discontinued products which are warranted for reliability by the reseller, no longer by Infineon See https://www.infineon.com/cms/en/product/power/smart-power-switches/high-side-

switches/power-profet-plus-12v-automotive-smart-high-side-switch/bts50010-1lua/ (last visited

# 1/27/2025).

Contact Mouser (USA) (800) 346-6873	🛛 Feedback 📔 🏚 Live Cha	All v Part # / Keyword	Q	In Stock	Change Location	English 🛩 🖇 US
roducts - Manufacturers S	Services & Tools Te	chnical Resources Help			Account & Orde	ers • 🎽 🏹
All Products > Semiconductors > Infineon Technologies BTS500101L	Power Management IC UAAUMA1	s > Power Switch ICs - Power Distribution >				See an Error?
			Orde	r online in 18:1	7:17 to ship today	Shipping Details
BTS500101LUAAUMA1			In Stock: 2,088			
Infineon	Mouser #:	726-BTS500101LUAAUMA	Stock:	2,088	Can Ship Immedia	ely
linincon	Mfr. #:	BTS500101LUAAUMA1 On Order:		2,000	Expected 3/12/202	5
(a) Infinen	Mfr.:	Infineon Technologies	Factory Lead-Time:	39	Weeks ?	
and and	Customer #:	Customer #	Minimum: 1	Multiples: 1		
	Description:	Power Switch ICs - Power Distribution	Enter Quantity:			Buy
Images are for reference only See Product Specifications	Datashoot	MULTICHIP PROFET & GD	Pricing (USD)			
Share	ECAD Model:	Request Free CAD Models	Qty.	Uni	it Price	Ext. Price
	5 1 10 7 10		Cut Tape / MouseReel	m †		
	Tool. Learn more about	t ECAD Model.	1		\$4.96	\$4.96
	More Information	Learn more about Infineon Technologies	10		\$3.49	\$34.90
		BTS500101LUAAUMA1	1,000		\$3.40	\$3,400.00
			Full Reel (Order in mul	tiples of 2000	)	
Compare Product		Add To Project   Add Notes	2,000		\$2.76	\$5,520.00
Specifications			† \$7.00 MouseReel™ fee cart. All MouseReel™ ord	e will be added ders are non-ca	and calculated in y ancellable and non-	our shopping returnable. 🕹

#### See

https://www.mouser.com/ProductDetail/Infineon-

Technologies/BTS500101LUAAUMA1?qs = 8Wlm6%252BaMh8RV1CWLPmP8Ug%3D%3D& the second structure of the se

utm\_source=octopart&utm\_medium=aggregator&utm\_campaign=726-

BTS500101LUAAUMA&utm\_content=Infineon (last visited 1/27/2025).

31. As another example, the Infineon CoolGaN Integrated Power Stage are available for purchase in the United States, including but not limited to through Infineon-authorized Global or Americas distributors:

DiaiKeu	Enter keyword or part #		( 🛨 Upload a Lie	• Q	EN/ \$ USD ~	Login or REGISTER ~   ヷ 0 item(s) ~	
	Products v Manufacturers v	Resources - Request a Quote				Tariff Resource Updates	
Product Index > Integrated Circuits (	ICs) > Power Management (PMIC) > Fu	III Half-Bridge (H Bridge) Drivers > Infineon Tec	hnologies IGI60F14	14A1LAUMA	1	Dark Mode Share 🖧	
	IGI60F1414A1LAUMA1				In-Stock: 2,759		
1 mars	DigiKey Part Number	448-IGI60F1414A1LAUMA1TR-ND - Tape & Reel ( 448-IGI60F1414A1LAUMA1CT-ND - Cut Tape (CT) 448-IGI60F1414A1LAUMA1DKR-ND - Digi-Reel®	TR)		Can ship immediately This product is no longer manufactured and will no longer be stocked once stock is depleted. <b>View Substitutes</b>		
	Manufacturer	Infineon Technologies					
Mun 7	Manufacturer Product Number	IGI60F1414A1LAUMA1 IC HALF BRIDGE DRIVER 28TIQFN			QUANTITY		
	Description						
Image shown is a representation only. Exact	Customer Reference				Add to List	Add to Cart	
data sheet.	Detailed Description	Half Bridge (2) Driver General Purpose PG-TIQFN-	28-1				
	Datasheet	ᡖ Datasheet			All prices are in USD		
	EDA/CAD Models	IGI60F1414A1LAUMA1 Models			Cut Tape (CT)		
					QUANTITY UN	IT PRICE EXT PRICE	
Product Attributes					1 \$12	2.76000 \$12.76	
					10 \$8.	\$9900 \$88.99	
ТҮР	E DESCRIPTION		SELECT ALL		100 \$6.	72290 \$672.29	
Categor	Integrated Circuits (ICs) ry Power Management (PMIC) Full Half-Bridge (H Bridge) Driver	S		0000	<b>500</b> \$6.	32500 \$3,162.50	
Manufacture	er Infineon Technologies						
Serie	es CoolGaN"						

# See

https://www.digikey.com/en/products/detail/infineon-

technologies/IGI60F1414A1LAUMA1/15776244 (last visited 1/27/2025).

32. As another example, the Infineon 32-bit MCU TriCore Package product line are available for purchase in the United States, including but not limited to through Infineon's website through Infineon-authorized Global or Americas distributors:

Document 1 Filed 02/06/25



 $\times$ 

We offer the following online ordering options

### TC1782F320F180HRBAKXUMA2 Products > Microcontroller > Legacy Microcontroller > Other Legacy MCUs > AUDO Family > TC1784/82 (AUDO MAX) > SAK-TC1782F-320F180HR BA Stock\* Price per unit Quantity (infineon Infineon 987 \$23.98 1 Standard Global Shipping \$4.99 📜 Add to cart AMERICAS (in stock) EMEA (in stock) ASIA (in stock) JAPAN (in stock) Distributor Stock\* 2000 > Order now **IVNET** 1975 > Order now MOUSER RS > Order now 1500 729 > Order now Newark 96 > Order now Bochester Electronics 0 > Order now DigiKey wow 0 > Order now

\*stock values are subject to change

\*\*Authorized resellers for overstock, and discontinued products which are warranted for reliability by the reseller, no longer by Infineon See https://www.infineon.com/cms/en/product/microcontroller/legacy-microcontroller/other-

legacy-mcus/audo-family/tc1784-82-audo-max/sak-tc1782f-320f180hr-ba/ (last visited

### 1/27/2025).



See https://www.avnet.com/shop/us/products/infineon/tc1782f320f180hrbakxuma2-

3074457345624887968?CMP=EMA\_Octopart\_inventoryfeed\_VSE (last visited 1/27/2025).

33. As another example, the Infineon TLF51801 Asynchronous DC/DC Step-Down Converter product line are available for purchase in the United States, including but not limited to through Infineon's website through Infineon-authorized Global or Americas distributors:

Document 1 Filed 02/06/25



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We offer the following online ordering options

# TLF51801ELVXUMA1

Products > Power > DC-DC Converters > Switching regulators > OPTIREG<sup>™</sup> Switchers (automotive) > TLF51801ELV

	Stock*	Price per unit	Quantity
Infineon Infineon	1232	\$ 3.47	1
	Standard Global Shipping	\$ 4.99	
			🍹 Add to cart

AMERICAS (in stock)	EMEA (in stock)	ASIA (in stock)	JAPAN (in stock	)
Distributor	Sto	ck*		
RS	994	45		> Order now
DigiKey	60	11		> Order now
MUSER	504	45		> Order now
WDW	500	00		> Order now
Rochester **     Electronics	23	57		> Order now
Newark .	174	40		> Order now
	0			> Order now
<b>AVNET</b>	0			> Order now

\*stock values are subject to change

\*\*Authorized resellers for overstock, and discontinued products which are warranted for reliability by the reseller, no longer by Infineon

See https://www.infineon.com/cms/en/product/power/dc-dc-converters/switching-

regulators/optireg-switchers-automotive/tlf51801elv/ (last visited 1/27/2025).



See https://www.arrow.com/en/products/tlf51801elvxuma1/infineon-technologiesag?region=europe&utm\_campaign=octopart\_2022&utm\_content=inv\_listing&utm\_currency=U SD&utm\_keyword=TLF51801ELVXUMA1&utm\_medium=aggregator&utm\_source=octopart (last visited 1/27/2025).

34. As another example, the Infineon TLE9872 Microcontroller product line are available for purchase in the United States, including but not limited to through Infineon's website through Infineon-authorized Global or Americas distributors:

Document 1 Filed 02/06/25



 $\times$ 

We offer the following online ordering options

### TLE9872QTW40XUMA1 Products > Microcontroller > MOTIX<sup>™</sup> MCU | 32-bit motor control SoC (system-on-chip) > 3-Phase Bridge Driver IC with Integrated Arm® Cortex® M3 > TLE9872QTW40 Stock\* Price per unit Quantity (infineon 1207 \$7.09 1 Infineon Standard Global Shipping \$4.99 📜 Add to cart EMEA (in stock) JAPAN (in stock) AMERICAS (in stock) ASIA (in stock) Distributor Stock\* 2604 > Order now DigiKey MOUSER 2415 > Order now 2083 > Order now Newark Rochester \*\* 2072 > Order now 0 > Order now wow 0 > Order now 0 > Order now **VNET**

\*stock values are subject to change

\*\*Authorized resellers for overstock, and discontinued products which are warranted for reliability by the reseller, no longer by Infineon See https://www.infineon.com/cms/en/product/microcontroller/embedded-power-ics-system-on-

chip-/3-phase-bridge-driver-integrated-arm-cortex-m3/tle9872qtw40/ (last visited 1/27/2025).

				New Deals	Offers Contact Us I	Help Track Orders en españo	
Newark	All ~ Keyword / Part #			Q		gin Register Account ✓ 📮 <sup>0</sup>	Items \$0.00
All Products V Manufacturers V Resources V 0	Communities $\sim$ Why choose	Newark? Top Tech Voices				Favorites To	pols $\checkmark$
	Same day shipping On Thousands of Produc	ts Our Bi	<b>ggest Range Ever</b> 0+ Products Available	FREE Technical Supp Exclusive to Farnell Cut	stom		
Home / Semiconductors - ICs / Microcontrollers / ARM	Microcontrollers					🖨 P	rint Page
TLE9872QTW40XUMA1 MCU, AEC-Q100, 32BIT, 40MHZ, TQFP-48 ROHS CC	MPLIANT: YES		infineon	2,083 In Stoc Delivery in 2–4 E Order before 9pm EST s	<b>K</b> Need more? Business Days (UK sto tandard shipping ()	ck)	
	Manufacturar	INFINEON		Quantity	Prie	:e	
	Manufacturer	INFINEON		1+	\$6.	460	
	Manufacturer Part No	TLE9872QTW40XUMA1		10+	\$5.	800	
Sec. 3 Siller	Newark Part No.	22AJ0517		50+	\$5.	290	
	Product Range	TLE987x Family TLE9872QTV	40 Series Microcontrollers	500+	\$3.	450	
Empfineon	Technical Datasheet	📔 Data Sheet		1000+	\$3.	420	
Powedded				2500+	\$3.	390	
CFP-48-10				5000+	\$3.	330	
THURING LEVING				Price for: Each (Supplie	ed on Cut Tape) 🐰		
				1		🛱 Add to Cart	
Imana is for illustrative purposar only. Plaase refer to product			See all Technical Docs	Minimum: 1 Multiple: 1			\$6.46
description.			Add to compare	Enter Your Part No/Line !	Note ~		
Technical Spe	ecifications						

Product Range	TLE987x Family TLE9872QTW40 Series	Device Core	ARM Cortex-M3	
	Microcontrollers	Data Bus Width	32 bit	
Data Bus Width	32bit	Program Memory Size	256KB	
Operating Frequency Max	40MHz	No. of Pins	48Pins	
RAM Memory Size	8KB	No. of L/O's	101/01/6	
CPU Speed	40MHz	NO. 01 1/0 S	101/0 \$	
		MCU Case Style	TQFP	

See https://www.newark.com/infineon/tle9872qtw40xuma1/mcu-aec-q100-32bit-40mhz-

tqfp/dp/22AJ0517?CMP=AFC-OP (last visited 1/27/2025).

# <u>FIRST COUNT</u> (Infringement of U.S. Patent No. 9,263,299)

35. Chip Packaging incorporates by reference the allegations set forth in Paragraphs 1-

34 of the Complaint as though fully set forth herein.

36. The claims of the '299 Patent are valid and enforceable.

37. Infineon has and continues to directly infringe the '299 Patent, either literally or under the doctrine of equivalents, without authority and in violation of 35 U.S.C. § 271, by making, using, offering to sell, selling, and/or importing into the United States the Accused Products made using the patented methods including, but not limited to, products that satisfy each and every limitation of one or more claims of the '299 Patent. Upon information and belief, such products include at least the Infineon OPTIREG Buck Regulator product line, including but not limited to: TDA38725. On information and belief, this further includes the Infineon Smart High-Side Power Switch product line including but not limited to the BTS50005-1LUA.

38. For example, the Accused Products incorporates and/or implements elements that are identical or equivalent to each claimed element of the patented invention pointed out by at least Claim 1 of the '299 Patent.

39. Claim 1 of the '299 Patent recites:

1. A method for packaging an integrated circuit (IC) device, the method comprising:

mounting a plurality of active device die, into predetermined positions, onto a temporary carrier, each said active device die having bond pads, each of said active device die having a solderable conductive surface on its underside; and having been subjected to back-grinding to a prescribed thickness;

dispensing a solder paste onto the bond pads on the plurality active device die;

attaching a lead frame to the temporary carrier, the lead frame having an array of device positions which correspond to the predetermined positions of the plurality of active device die, wherein upper lead frame portions contact the solder paste present on the bond pads and lower lead frame portions contact the temporary carrier; and

reflowing the solder so that a connection is made between the upper lead frame portions and the bond pads of the plurality of active device die.

'299 Patent, Cl. 1.

40. For example, the Infineon Buck Regulator implements a method for packaging an integrated circuit (IC) device. The integrated circuit (IC) device of the Infineon Buck Regulator is illustrated below:



41. On information and belief, the Accused Products are manufactured using a process that mounts a plurality of active device die, into predetermined positions, onto a temporary carrier.



Package Cross-Section Image

42. On information and belief, within the Accused Products each active die has bond

pads.



Package Cross-Section Image

43. On information and belief, within the Accused Products each active die has a solderable conductive surface on its underside; and has been subjected to back-grinding to a prescribed thickness.



44. On information and belief, the Accused Products are manufactured using a process

that dispenses a solder paste onto the bond pads on the plurality active device die.



45. On information and belief, the Accused Products are manufactured using a process that attaches a lead frame to the temporary carrier, the lead frame having an array of device positions which correspond to the predetermined positions of the plurality of active device die.



Package Cross-Section Image

46. On information and belief, the Accused Products are manufactured using a process

wherein the upper lead frame portions contact the solder paste present on the bond pads.



Package Cross-Section Image

# 47. On information and belief, the Accused Products are manufactured using a process

wherein the lower lead frame portions contact the temporary carrier.



Package Cross-Section Image

48. On information and belief, the Accused Products are manufactured using a process that reflows the solder so that a connection is made between the upper lead frame portions and the bond pads of the plurality of active device die.



Cross-Section of Carrier, Die, and Lead Frame

49. Fact and expert discovery are expected to confirm that the Accused Products infringe the '299 Patent, for which further evidence may lie in whole or in part in technical documents to which Chip Packaging does not presently have access.

50. Further, on information and belief, Defendant has and continues to indirectly infringe one or more claims of the '299 Patent, including claim 1, by knowingly and intentionally inducing others, including third-party semiconductor foundries, other types of third-party manufacturers, customers, and/or end-users to directly infringe, either literally or under the doctrine of equivalents, by making, using, offering to sell, selling, and/or importing into the United States the Accused Products.

Package Cross-Section Image

51. Defendant, with knowledge that these products, and/or the manufacture thereof, infringe the '299 Patent at least as of the date of this Complaint, knowingly and intentionally induced, and continues to knowingly and intentionally induce direct infringement of the '299 Patent by contracting for the third-party manufacture of, and/or providing the Accused Products to direct infringers.

52. Defendant has induced infringement by others, including third-party semiconductor foundries, other types of third-party manufacturers, customers, and/or end-users, with the intent to cause infringing acts by others or, in the alternative, with the belief that there was a high probability that others infringe the '299 Patent, but while remaining willfully blind to the infringement.

53. Defendant has and continues to infringe one or more claims of the '299 Patent by importing into the United States or offering to sell, selling, or using within the United States a product which is made by a process patented in the United States.

54. Defendant is not licensed or otherwise authorized to practice the claims of the '299 Patent.

55. Thus, by its acts, Defendant has injured Chip Packaging and is liable to Chip Packaging for directly and/or indirectly infringing one or more claims of the '299 Patent, whether literally or under the doctrine of equivalents, including without limitation claim 1.

56. As a result of Defendant's infringement of the '299 Patent, Chip Packaging has suffered monetary damages, and seeks recovery, in an amount to be proven at trial, adequate to compensate for Defendant's infringement, but in no event less than a reasonable royalty with interest and costs.

#### <u>SECOND COUNT</u> (Infringement of U.S Patent No. 9,299,646)

57. Chip Packaging incorporates by reference the allegations set forth in Paragraphs 1-56 of the Complaint as though fully set forth herein.

58. The claims of the '646 Patent are valid and enforceable.

59. Infineon has and continues to directly infringe the '646 Patent, either literally or under the doctrine of equivalents, without authority and in violation of 35 U.S.C. § 271, by making, using, offering to sell, selling, and/or importing into the United States the Accused Products made using the patented methods including, but not limited to, products that satisfy each and every limitation of one or more claims of the '646 Patent. Upon information and belief, such products include Infineon 32-bit TriCore AUDO MAX at least the MCU Package TC1782N320F180HRBAKXUMA2 and all other products with power and ground bar arrangements that are not colorably different.

60. For example, the Accused Products incorporates and/or implements elements that are identical or equivalent to each claimed element of the patented invention pointed out by at least Claim 1 of the '646 Patent.

61. Claim 1 of the '646 Patent recites:

1. A semiconductor device, comprising:

a semiconductor die having a plurality of first contact pads and at least one second contact pad disposed on or exposed through a surface thereof;

a package casing that covers the semiconductor die;

a plurality of signal leads spaced apart from the semiconductor die and each having an embedded portion located within the package casing and an exposed portion located outside of the package casing, each of the signal leads being electrically connected to a respective one of the first contact pads;

a power bar extending at least partially in an area between the embedded portions of the plurality of signal leads and the semiconductor die and having a first side opposing the signal leads and a second side opposing the semiconductor die, the power bar being electrically connected to the at least one second contact pad; and

a ground bar that is electrically grounded and extends at least partially in said area, the ground bar having a first portion disposed between the embedded portions of the plurality of signal leads and the first side of the power bar, and a second portion disposed between the second side of the power bar and the semiconductor die.

'646 Patent, Cl. 1.

62. For example, the Infineon 32-bit MCU TriCore Package is a semiconductor device:



Source: Infineon TriCore TC1782 32-Bit MCU Datasheet



Infineon TriCore Package X-Ray Image





Infineon TriCore Die Image Overlayed Onto Lead Frame X-Ray Image

63. On information and belief, the Infineon 32-bit MCU TriCore Package includes a semiconductor die having a plurality of first contact pads and at least one second contact pad disposed on or exposed through a surface thereof.



64. On information and belief, the Infineon 32-bit MCU TriCore Package includes a package casing that covers the semiconductor die.



65. On information and belief, the Infineon 32-bit MCU TriCore Package includes a plurality of signal leads spaced apart from the semiconductor die and each having an embedded portion located within the package casing and an exposed portion located outside of the package casing, each of the signal leads being electrically connected to a respective one of the first contact pads.

#### 1. ...



66. On information and belief, the Infineon 32-bit MCU TriCore Package includes a power bar extending at least partially in an area between the embedded portions of the plurality of signal leads and the semiconductor die.



67. On information and belief, the Infineon 32-bit MCU TriCore Package includes a power bar having a first side opposing the signal leads and a second side opposing the semiconductor die, the power bar being electrically connected to the at least one second contact pad.



68. On information and belief, the Infineon 32-bit MCU TriCore Package includes a ground bar that is electrically grounded and extends at least partially in said area.



69. On information and belief, the Infineon 32-bit MCU TriCore Package includes a ground bar having a first portion disposed between the embedded portions of the plurality of signal leads and the first side of the power bar.



70. On information and belief, the Infineon 32-bit MCU TriCore Package includes a ground bar having a second portion disposed between the second side of the power bar and the semiconductor die.



Pin 1

71. Fact and expert discovery are expected to confirm that the Accused Products infringe the '646 Patent, for which further evidence may lie in whole or in part in technical documents to which Chip Packaging does not presently have access.

72. Further, on information and belief, Defendant has and continues to indirectly infringe one or more claims of the '646 Patent, including claim 1, by knowingly and intentionally inducing others, including third-party semiconductor foundries, other types of third-party manufacturers, customers, and/or end-users to directly infringe, either literally or under the doctrine of equivalents, by making, using, offering to sell, selling, and/or importing into the United States the Accused Products.

73. Defendant, with knowledge that these products, and/or the manufacture thereof, infringe the '646 Patent at least as of the date of this Complaint, knowingly and intentionally induced, and continues to knowingly and intentionally induce direct infringement of the '646

Patent by contracting for the third-party manufacture of, and/or providing the Accused Products to direct infringers.

74. Defendant has induced infringement by others, including third-party semiconductor foundries, other types of third-party manufacturers, customers, and/or end-users, with the intent to cause infringing acts by others or, in the alternative, with the belief that there was a high probability that others infringe the '646 Patent, but while remaining willfully blind to the infringement.

75. Defendant is not licensed or otherwise authorized to practice the claims of the '646 Patent.

76. Thus, by its acts, Defendant has injured Chip Packaging and is liable to Chip Packaging for directly and/or indirectly infringing one or more claims of the '646 Patent, whether literally or under the doctrine of equivalents, including without limitation claim 1.

77. As a result of Defendant's infringement of the '646 Patent, Chip Packaging has suffered monetary damages, and seeks recovery, in an amount to be proven at trial, adequate to compensate for Defendant's infringement, but in no event less than a reasonable royalty with interest and costs.

#### <u>THIRD COUNT</u> (Infringement of U.S Patent No. 8,258,611)

78. Chip Packaging incorporates by reference the allegations set forth in Paragraphs 1-77 of the Complaint as though fully set forth herein.

79. The claims of the '611 Patent are valid and enforceable.

80. Infineon has and continues to directly infringe the '611 Patent, either literally or under the doctrine of equivalents, without authority and in violation of 35 U.S.C. § 271, by making, using, offering to sell, selling, and/or importing into the United States the Accused Products made using the patented methods including, but not limited to, products that satisfy each and every

limitation of one or more claims of the '611 Patent. Upon information and belief, such products include at least the Infineon IGI60F1414A1 CoolGaN Integrated Power Stage, Infineon TLF51801
 OPTIREG Asynchronous DC/DC Step-Down Converter, Infineon TLE9872QT MOTIX
 Microcontroller, and Infineon TLE9461ES OPTIREG Power Management IC and all other products with delamination barrier structures that are not colorably different, including but not limited to CY9BF364LPMC1-G-JNE2, S6E1C12C0AGV20000, TC213L8F133NACKXUMA1, TC223S16F133FACKXUMA1, TC234L32F200NACKXUMA1, TC265D40F200NBCKXUMA1, TC333LP32F200FAAKXUMA1,

### TC364DP64F300FAALXUMA1, TLE9877QTW40XUMA1.

81. For example, the Accused Products incorporates and/or implements elements that

are identical or equivalent to each claimed element of the patented invention pointed out by at least

Claim 1 of the '611 Patent.

82. Claim 1 of the '611 Patent recites:

1. A leadframe structure for an electronic package, the leadframe structure comprising:

a die-pad configured and arranged for die attachment,

a bonding area and

a barrier area having a barrier structure connecting the die-pad and the bonding area and configured and arranged with a length and width, at a connection between the barrier and the die-pad, that mitigates the delamination of a moulding compound from the barrier as the moulding compound delaminates from a portion of the die-pad adjacent the connection between the barrier and the die pad.

'611 Patent, Cl. 1.

83. For example, the Infineon IGI60F1414A1 is a lead frame structure for an electronic package that satisfies each claim element.



84. As another example, the Infineon TLF51801ELV is a lead frame structure for an

electronic package that satisfies each claim element.



85. As another example, the Infineon TLE9872QT is a lead frame structure for an electronic package that satisfies each claim element.

- 1. A leadframe structure for an electronic package, the leadframe structure comprising:
- a die-pad configured and arranged for die attachment,
- a bonding area and
- a barrier area having a barrier structure connecting the die-pad and the bonding area and

configured and arranged with a length and width, at a connection between the barrier and the diepad, that mitigates the delamination of a moulding compound from the barrier as the moulding compound delaminates from a portion of the diepad adjacent the connection between the barrier and the die pad.





86. As another example, the Infineon TLE9461ES is a lead frame structure for an electronic package that satisfies each claim element.

- 1. A leadframe structure for an electronic package, the leadframe structure comprising:
- a die-pad configured and arranged for die attachment,
- a bonding area and
- a barrier area having a barrier structure connecting the die-pad and the bonding area and

configured and arranged with a length and width, at a connection between the barrier and the diepad, that mitigates the delamination of a moulding compound from the barrier as the moulding compound delaminates from a portion of the diepad adjacent the connection between the barrier and the die pad.





87. Fact and expert discovery are expected to confirm that the Accused Products infringe the '611 Patent, for which further evidence may lie in whole or in part in technical documents to which Chip Packaging does not presently have access.

88. Further, on information and belief, Defendant has and continues to indirectly infringe one or more claims of the '611 Patent, including claim 1, by knowingly and intentionally inducing others, including third-party semiconductor foundries, other types of third-party manufacturers, customers, and/or end-users to directly infringe, either literally or under the doctrine of equivalents, by making, using, offering to sell, selling, and/or importing into the United States the Accused Products.

89. Defendant, with knowledge that these products, and/or the manufacture thereof, infringe the '611 Patent at least as of the date of this Complaint, knowingly and intentionally induced, and continues to knowingly and intentionally induce direct infringement of the '911

Patent by contracting for the third-party manufacture of, and/or providing the Accused Products to direct infringers.

90. Defendant has induced infringement by others, including third-party semiconductor foundries, other types of third-party manufacturers, customers, and/or end-users, with the intent to cause infringing acts by others or, in the alternative, with the belief that there was a high probability that others infringe the '611 Patent, but while remaining willfully blind to the infringement.

91. Defendant is not licensed or otherwise authorized to practice the claims of the '611 Patent.

92. Thus, by its acts, Defendant has injured Chip Packaging and is liable to Chip Packaging for directly and/or indirectly infringing one or more claims of the '611 Patent, whether literally or under the doctrine of equivalents, including without limitation claim 1.

93. As a result of Defendant's infringement of the '611 Patent, Chip Packaging has suffered monetary damages, and seeks recovery, in an amount to be proven at trial, adequate to compensate for Defendant's infringement, but in no event less than a reasonable royalty with interest and costs.

#### <u>FOURTH COUNT</u> (Infringement of U.S Patent No. 9,685,351)

94. Chip Packaging incorporates by reference the allegations set forth in Paragraphs 1-93 of the Complaint as though fully set forth herein.

95. The claims of the '351 Patent are valid and enforceable.

96. Infineon has and continues to directly infringe the '351 Patent, either literally or under the doctrine of equivalents, without authority and in violation of 35 U.S.C. § 271, by making, using, offering to sell, selling, and/or importing into the United States the Accused Products made using the patented methods including, but not limited to, products that satisfy each and every

limitation of one or more claims of the '351 Patent. Upon information and belief, such products include at least the Infineon TC1782 TriCore 32-bit AUDO MAX MCU and all other products with positive mold lock structures that are not colorably different, including but not limited to TC213L8F133NACKXUMA1, TC223S16F133FACKXUMA1, TC234L32F200NACKXUMA1, TC265D40F200NBCKXUMA1, TC265D40F200NBCKXUMA1, TC333LP32F200FAAKXUMA1, TC333LP32F200FAAKXUMA1,

### TC364DP64F300FAALXUMA1.

97. For example, the Accused Products incorporates and/or implements elements that are identical or equivalent to each claimed element of the patented invention pointed out by at least Claim 1 of the '351 Patent.

98. Claim 1 of the '351 Patent recites:

1. A method comprising:

providing a lead frame comprising a first die paddle and one or more electrical connector elements; and

forming one or more positive mold lock structures at predetermined locations on a top surface of the lead frame which laterally protrude above the top surface.

'351 Patent, Cl. 1.

99. For example, the Infineon 32-bit AUDO MAX MCU implements a method for fabricating a microchip structure. The microchip structure of the Infineon AUDO MAX 32-bit MCU is illustrated below:

Document 1 File

Filed 02/06/25



Source: Infineon TC1782 Datasheet

100. On information and belief, the Accused Products are manufactured using a process that provides a lead frame comprising a first die paddle and one or more electrical connector elements.



101. On information and belief, within the Accused Products are manufactured using a process that forms one or more positive mold lock structures at predetermined locations.



102. On information and belief, within the Accused Products are manufactured using a process that forms one or more positive mold lock structures at predetermined locations on a top surface of the lead frame which laterally protrude above the top surface.



103. Fact and expert discovery are expected to confirm that the Accused Products infringe the '351 Patent, for which further evidence may lie in whole or in part in technical documents to which Chip Packaging does not presently have access.

104. Further, on information and belief, Defendant has and continues to indirectly infringe one or more claims of the '351 Patent, including claim 1, by knowingly and intentionally inducing others, including third-party semiconductor foundries, other types of third-party manufacturers, customers, and/or end-users to directly infringe, either literally or under the doctrine of equivalents, by making, using, offering to sell, selling, and/or importing into the United States the Accused Products.

105. Defendant, with knowledge that these products, and/or the manufacture thereof, infringe the '351 Patent at least as of the date of this Complaint, knowingly and intentionally induced, and continues to knowingly and intentionally induce direct infringement of the '351

Patent by contracting for the third-party manufacture of, and/or providing the Accused Products to direct infringers.

106. Defendant has induced infringement by others, including third-party semiconductor foundries, other types of third-party manufacturers, customers, and/or end-users, with the intent to cause infringing acts by others or, in the alternative, with the belief that there was a high probability that others infringe the '351 Patent, but while remaining willfully blind to the infringement.

107. Defendant has and continues to infringe one or more claims of the '351 Patent by importing into the United States or offering to sell, selling, or using within the United States a product which is made by a process patented in the United States.

108. Defendant is not licensed or otherwise authorized to practice the claims of the '351Patent.

109. Thus, by its acts, Defendant has injured Chip Packaging and is liable to Chip Packaging for directly and/or indirectly infringing one or more claims of the '351 Patent, whether literally or under the doctrine of equivalents, including without limitation claim 1.

110. As a result of Defendant's infringement of the '351 Patent, Chip Packaging has suffered monetary damages, and seeks recovery, in an amount to be proven at trial, adequate to compensate for Defendant's infringement, but in no event less than a reasonable royalty with interest and costs.

#### <u>FIFTH COUNT</u> (Infringement of U.S Patent No. 8,394,713)

111. Chip Packaging incorporates by reference the allegations set forth in Paragraphs 1-110 of the Complaint as though fully set forth herein.

112. The claims of the '713 Patent are valid and enforceable.

113. Infineon has and continues to directly infringe the '713 Patent, either literally or under the doctrine of equivalents, without authority and in violation of 35 U.S.C. § 271, by making, using, offering to sell, selling, and/or importing into the United States the Accused Products made using the patented methods including, but not limited to, products that satisfy each and every limitation of one or more claims of the '713 Patent. Upon information and belief, such products include at least the Infineon IGI60F1414A1L CoolGaN product line and all other products with a nickel layer on a bond pad and a palladium layer that are not colorably different.

114. For example, the Accused Products incorporates and/or implements elements that are identical or equivalent to each claimed element of the patented invention pointed out by at least

Claim 1 of the '713 Patent.

115. Claim 1 of the '713 Patent recites:

1. A method for forming over pad metallization (OPM) on a semiconductor die having a bond pad in which the bond pad has an inner portion surrounded by a passivation layer, comprising:

depositing a nickel layer on the bond pad, wherein a lack of adhesion between the nickel layer and the passivation layer results in a space between the nickel layer and the passivation layer down to the bond pad;

applying an isotropic etchant selective for nickel to the nickel layer to widen the space between the nickel layer and the passivation layer down to the bond pad; and

depositing a palladium layer on the nickel layer and in the space so as to be in contact, in the space, with the bond pad, the passivation layer, and the nickel layer.

'713 Patent, Cl. 1.

116. For example, the Infineon IGI60F1414A1L CoolGaN implements a method for

forming over pad metallization on a semiconductor die having a bond pad in which the bond pad

has an inner portion surrounded by a passivation layer.

- A method for forming over pad metallization (OPM) on a semiconductor die having a bond pad in which the bond pad has an inner portion surrounded by a passivation layer, comprising:
- depositing a nickel layer on the bond pad, wherein a lack of adhesion between the nickel layer and the passivation layer results in a space between the nickel layer and the passivation layer down to the bond pad;
- applying an isotropic etchant selective for nickel to the nickel layer to widen the space between the nickel layer and the passivation layer down to the bond pad; and
- depositing a palladium layer on the nickel layer and in the space <u>so as to</u> be in contact, in the space, with the bond pad, the passivation layer, and the nickel layer.



117. On information and belief, the Accused Products are manufactured using a process

that deposits a nickel layer on the bond pad, wherein a lack of adhesion between the nickel layer

and the passivation layer results in a space between the nickel layer and the passivation layer down

to the bond pad.



depositing a palladium layer on the nickel layer and in the space so as to be in contact, in the space, with the bond pad, the passivation layer, and the nickel layer.

118. On information and belief, the Accused Products are manufactured using a process

that applies an isotropic etchant selective for nickel to the nickel layer to widen the space between

the nickel layer and the passivation layer down to the bond pad.



119. On information and belief, the Accused Products are manufactured using a process that deposits a palladium layer on the nickel layer and in the space so as to be in contact, in the space, with the bond pad, the passivation layer, and the nickel layer.

nickel layer.



120. Fact and expert discovery are expected to confirm that the Accused Products infringe the '713 Patent, for which further evidence may lie in whole or in part in technical documents to which Chip Packaging does not presently have access.

121. Further, on information and belief, Defendant has and continues to indirectly infringe one or more claims of the '713 Patent, including claim 1, by knowingly and intentionally inducing others, including third-party semiconductor foundries, other types of third-party manufacturers, customers, and/or end-users to directly infringe, either literally or under the doctrine of equivalents, by making, using, offering to sell, selling, and/or importing into the United States the Accused Products.

122. Defendant, with knowledge that these products, and/or the manufacture thereof, infringe the '713 Patent at least as of the date of this Complaint, knowingly and intentionally induced, and continues to knowingly and intentionally induce direct infringement of the '713 Patent by contracting for the third-party manufacture of, and/or providing the Accused Products to direct infringers.

123. Defendant has induced infringement by others, including third-party semiconductor foundries, other types of third-party manufacturers, customers, and/or end-users, with the intent to cause infringing acts by others or, in the alternative, with the belief that there was a high probability that others infringe the '713 Patent, but while remaining willfully blind to the infringement.

124. Defendant has and continues to infringe one or more claims of the '713 Patent by importing into the United States or offering to sell, selling, or using within the United States a product which is made by a process patented in the United States.

125. Defendant is not licensed or otherwise authorized to practice the claims of the '713 Patent.

126. Thus, by its acts, Defendant has injured Chip Packaging and is liable to Chip Packaging for directly and/or indirectly infringing one or more claims of the '713 Patent, whether literally or under the doctrine of equivalents, including without limitation claim 1.

127. As a result of Defendant's infringement of the '713 Patent, Chip Packaging has suffered monetary damages, and seeks recovery, in an amount to be proven at trial, adequate to compensate for Defendant's infringement, but in no event less than a reasonable royalty with interest and costs.

#### PRAYER FOR RELIEF

WHEREFORE, Plaintiff prays for judgment and seeks relief from Defendant as follows:

a. For judgment that Defendant has infringed and continues to infringe the claims of the '299,'646, '611, '351, and '713 Patents;

b. For an accounting of all damages sustained by Plaintiff as a result of Defendant's acts of infringement;

c. For a mandatory future royalty payable by Defendant in relation to each sale of an Accused Product that is found to infringe one or more of the Asserted Patents and all future products which are not colorably different from products found to infringe;

d. For a judgment and order requiring Defendant to pay Plaintiff's damages, costs, expenses, and pre- and post-judgment interest for its infringement of the '299,'646, '611, '351, and '713 Patents as provided under 35 U.S.C. § 284;

e. For a judgment and order finding that this is an exceptional case within the meaning of 35 U.S.C. § 285 and awarding to Plaintiff its reasonable attorneys' fees; and

f. For such other and further relief in law and in equity as the Court may deem just and proper.

#### **DEMAND FOR JURY TRIAL**

Pursuant to Rule 38(b) of the Federal Rules of Civil Procedure, Plaintiff demands a trial by jury in this action for all issues triable by a jury.

Respectfully Submitted,

#### /s/ Garland Stephens by permission Andrea L. Fair

Garland Stephens (Texas Bar No. 24053910) garland@bluepeak.law Justin Constant (Texas Bar No. 24067551) justin@bluepeak.law Robert Magee robert@bluepeak.law Richard Koehl (Texas Bar No. 24115754) richard@bluepeak.law Anna Dwyer anna@bluepeak.law Kate Falkenstien kate@bluepeak.law Heng Gong (pro hac vice) heng@bluepeak.law **BLUE PEAK LAW GROUP LLP** 3139 West Holcombe Blvd. PMB 8160 Houston, TX 77025 Tel: (281) 972-3036

Of Counsel:

Charles Everingham IV State Bar No. 00787447 chad@millerfairhenry.com Andrea L. Fair State Bar No. 24078488 andrea@millerfairhenry.com **MILLER FAIR HENRY, PLLC** 1507 Bill Owens Parkway Longview, Texas 75604 (903) 757-6400 (telephone) (903) 757-2323 (facsimile)

# **ATTORNEYS FOR PLAINTIFF**