

# PRODUCT / PROCESS CHANGE NOTIFICATION PCN NO: PCN IN 210118-01

Issue Date: Feb. 8th
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SUBJECT (	OF C	CHAN	IGE:
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Change of IC and Lead frame.

#### **PRODUCTS AFFECTED:**

**IN-PI55TAT Series** 

#### PRODUCT SPEC NUMBER:

IN-PI55TATPRPGPB	IN-PI55TATPRPGPB-7323
IN-PI55TATPRPGPB-7110	IN-PI55TATPRPGPB-7329
IN-PI55TATPRPGPB-7181	IN-PI55TATPRPGPB-S
IN-PI55TATPRPGPB-7184	IN-PI55TATPRPGPB-S-7286
IN-PI55TATPRPGPB-7184B	IN-PI55TATPURPUGPUB
IN-PI55TATPRPGPB-7257	IN-PI55TATPURPUGPUB-7300
IN-PI55TATPRPGPB-7262	IN-PI55TATPWPWPW-90

#### **REASON OF CHANGE:**

Product enhancement for reliability and light efficacy.

#### **DESCRIPTION OF CHANGE:**

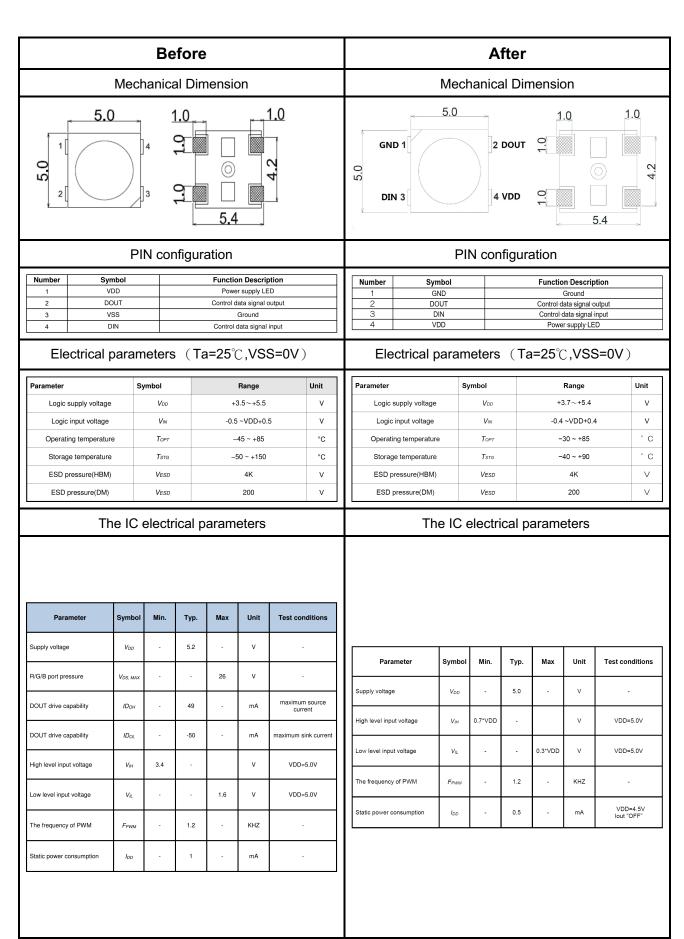
**Major Change** 

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**Minor Change** 

Change the IC and Lead-frame to enhance the product reliability and light efficacy.

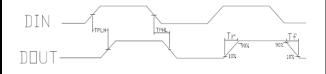






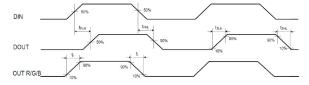
#### Switching characteristics

Parameter	Symbol	Min.	Тур.	Max	Unit	Test conditions
The speed of data transmission	fDIN	-	800	-	KHZ	The duty ratio of 67% (data 1)
DOUT transmission delay	$T_{PLH}$	-	-	500	ns	DIN→DOUT
	$T_{PHL}$	-	-	500	ns	DIN→DOUT
I <sub>OUT</sub> Rise/Drop Time	T <sub>r</sub>	-	100	-	ns	VDS=1.5
	T <sub>f</sub>	-	100	-	ns	I <sub>OUT</sub> =5/13mA



#### Switching characteristics

Parameter	Symbol	Min.	Тур.	Max	Unit	Test conditions	
The speed of data transmission	fDIN	-	800	-	KHZ	The duty ratio of 67% (data 1)	
DOUT transmission delay	$T_{PLH}$	-	80	-	ns	The earth load capacitance of the dout port is 30pf.	
	$T_{PHL}$	-	80	-	ns		
I <sub>OUT</sub> Rise/Drop Time	Т,	-	50	-	ns	IOUT R/G/B = 12mA, out port is connected with 200 O resistor to	
	Tr	-	100	-	ns	With 200 Ω resistor to VDD in series, and the load capacitance to ground is 30pf	



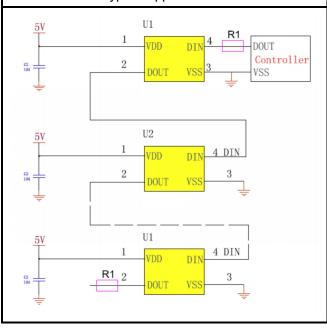
The data transmission time

Name	Description	Typ. value	error
ТОН	0 code, high level time	0.3µs	±0.15µs
T0L	0 code, low level time	0.9µs	±0.15µs
T1H	1 code, high level time	0.9µs	±0.15µs
T1L	1 code, low level time	0.3µs	±0.15µs
Trst	Reset code, low level time	80µs	·

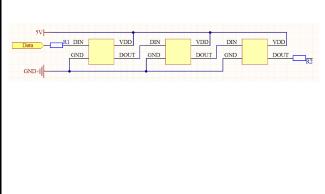
#### The data transmission time

Name	Description	Min.	Тур.	Max.	Unit
ТОН	0 code, high level time	-	0.3µs	-	μs
TOL	0 code, low level time	-	0.9µs	-	μs
T1H	1 code, high level time	-	0.6µs	-	μs
T1L	1 code, low level time	-	0.6µs	-	μs
Trst	Reset code, low level time	200	80µs	-	μs

#### The typical application circuit



#### The typical application circuit





#### PRODUCT IDENTIFICATION TO INDICATE CHANGE:

**Dimension: Refer to the drawing.** 

**Specification: No Change** 

Material: IC & Lead-frame change Datasheet: Update to new version

Please note this is IC and Lead-frame change PCN due to product reliability and efficacy enhancement. Replacement material will have the same optical and electrical specification. All reliability specifications remain the same.

#### DATE OF LAST TIME BUY OF ORIGINAL VERSION:

Mar. 31st, 2021

**DATECODE OF CHANGE:** 

Apr. 4<sup>th</sup>, 2021

**DATE TO BEGIN SHIPPING:** 

Apr. 4th, 2021

#### ASSESSMENT:

In case of any questions please contact us at:

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## CUSTOMER FEEDBACK FORM to INOLUX PCN

### **Inolux Corporation Change of IC and Lead-frame In Package**

Dear Customer, Your feedback is very much appreciated and will help us to realize this change without problems. Thank you for your help. Please tick and comment. We agree with this change and the schedule. We have the following objections: In addition, we need the following information: We need samples. Type: Quantity: Special requirement: Purpose of sample order: Please feedback to: Inolux Corporation Customer Representative's name: FAX No.: +1-408-8449618 Phone: +1-408-8843871 Name: Mr. William Chang Address: 3350 Scott Blvd. **Suite 4102 Date/Customer Representative's** 

Expiration: 15 years V 1.0 F-008 Rev.1.0

**Signature** 

Santa Clara, CA, USA.