

Product /Process Change Notification

PCN Number:

Create Date: 9th Sep, 2021

Issue By PD: William Lin

1. Description of Change:

Due to OTC / Tyntek dice shortage, dice lead time will be over 8 months. To avoid unpredictable delivering date, LITEON decide to add Epistar dice as 2nd source.

LITEON will keep the same performance, quality, and RA requirements; The action will implement at the end of November 2021.

2. Products Affected:

Please refer to list attached.

3. Before:

Products with OTC / Tyntek for orange/ green/ red/ yellow dice

4. After:

Adding Epistar dice as 2nd source. Please refer evaluate report as appendix.

5. Effected date :

The action will implement at the end of November 2021, if there is no feedback.

Customer Approval Portion:

* Approved (____), Remark: _____

* Rejected (____), Reason (_____)

CUSTOMER REPRESENTATIVE NAME/TITLE:

SIGNATURE:

DATE:

E-MAIL:

PHONE:

Product /Process Change Notification

Products Affected:

LSHD-5601	LTC-5336G	LTL-2785Y	LTS-2801AG	LTS-546AE
LSHD-5601	LTC-5337E	LTL-2855G	LTS-2801AG	LTS-546AG
LTA-1000G	LTC-5337E	LTL-2855G	LTS-2801AG	LTS-546AG
LTA-1000G	LTC-5337G	LTL-2885G	LTS-2801AG	LTS-546AHG-06
LTA-1000HR	LTC-571G	LTL-53173Y	LTS-2801AG-01	LTS-546AHR
LTA-1000HR	LTC-571G	LTM-8522HR	LTS-2801AHG-05	LTS-547AE
LTA-1000Y	LTC-5816HG-01	LTP-1557AG	LTS-312AHR	LTS-547AE
LTA-1003M-02	LTC-5817G	LTP-2157AE	LTS-312AHR	LTS-547AE
LTA-1005G	LTD-2601E	LTP-2188AA	LTS-312AHR	LTS-547AE
LTA-12501G	LTD-4608A	LTP-305HR	LTS-312AHR	LTS-547AG
LTC-2621E	LTD-4608E	LTP-305HR	LTS-313AHR	LTS-547AHG-06
LTC-2621E	LTD-5260HR	LTP-3362E	LTS-313AHR	LTS-547AHR
LTC-2621G	LTD-6402E	LTP-3784E	LTS-315AHR	LTS-547AHR
LTC-2623G	LTD-6410G	LTP-3784E	LTS-3401VE	LTS-5501AE
LTC-2721E	LTD-6910HR	LTP-3784G	LTS-3403LE	LTS-5501AE
LTC-2721G	LTD-6910HR	LTP-3784G	LTS-3403LE	LTS-5503AE
LTC-2721HG	LTG-0207M	LTP-3786E	LTS-360G	LTS-5601AHG
LTC-2723E	LTG-0229M	LTP-3786G	LTS-4301BG	LTS-5601AHG-01
LTC-2723G	LTG-0234M	LTP-587HR	LTS-4301E	LTS-6460G
LTC-2723G	LTG-0237M	LTP-587Y	LTS-4301E	LTS-6460G
LTC-2723G-01	LTG-0238M	LTP-7357AG	LTS-4301G	LTS-6475G
LTC-2810HG	LTJ-811G	LTP-757G	LTS-4301G	LTS-6960HR
LTC-4624E	LTJ-811HR	LTS-2301AE	LTS-4301HG-02	LTS-6980HR
LTC-4627E	LTL-2350HR	LTS-2301AG	LTS-4801E	LTS-6980HR
LTC-4727E	LTL-2500G	LTS-2301AHG-05	LTS-4801G	LTS-6980HR
LTC-4727G	LTL-2550G	LTS-2801AE	LTS-4801G-13	LTS-6980HR
LTC-4727Y	LTL-2655HR	LTS-2801AE	LTS-4910AHR	LTS-6980HR
LTC-4857E	LTL-2685HR	LTS-2801AE	LTS-5324G	LTS-6980HR
LTC-4857G	LTL-2685HR	LTS-2801AE	LTS-546AE	LTS-8809HR

Product /Process Change Notification

Appendix :

Specification for Finish Good- Orange dice

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	100*	mA
Continuous Forward Current Per Segment	25	mA
Forward Current Derating from 25°C	0.28	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +105°C	
Storage Temperature Range	-35°C to +105°C	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260°C		

* see figure 5 to establish pulsed condition

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I _v	500	1560		μcd	I _r = 10mA
Peak Emission Wavelength	λ _p		610		nm	I _r = 20mA
Spectral Line Half-Width	Δλ		35		nm	I _r = 20mA
Dominant Wavelength	λ _d		602		nm	I _r = 20mA
Forward Voltage Per Segment	V _f		2.1	2.6	V	I _r = 20mA
Reverse Current Per Segment	I _r		100		μA	V _R = 5V
Luminous Intensity Matching Ratio	I _v -m		2 : 1			I _r = 10mA

Note: Luminous Intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage) eye-response curve.

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Luminous Intensity and Dominant Wavelength-Orange dice

Luminous Intensity,LTD-482AC-08J

UNIT: ucd

TEST CONDITION: IF = 10 mA

MEASURING EQUIPMENT: J17 TEKTRONIX

SPEC IV: Min 500 ucd, Typ 1560 ucd

Tyntek						Epistar					
Digit	PRODUCT NO.					Digit	PRODUCT NO.				
	No.1	No.2	No.3	No.4	No.5		No.1	No.2	No.3	No.4	No.5
Luminous Intensity	2489.1	2398.4	2471.9	2653.1	2439.2	Luminous Intensity	3149.6	3360.9	3335.9	3188.7	3262.4

Result : Luminous Intensity within DS spec

Dominant Wavelength,LTD-482AC-08J

UNIT: nm

TEST CONDITION: 20mA

MEASURING EQUIPMENT: CAS-140B

SPEC: Typ, 602 nm

Tyntek						Epistar					
Digit	PRODUCT NO.					Digit	PRODUCT NO.				
	No.1	No.2	No.3	No.4	No.5		No.1	No.2	No.3	No.4	No.5
Dominant Wavelength	602.5	602.5	602.5	602.0	602.4	Dominant Wavelength	601.6	600.8	601.0	601.8	601.3

Result : Dominant Wavelength within DS spec

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Product /Process Change Notification

Light-up/Cross-talk- Orange dice

	Tyntek	Epistar
Light-up		
Cross-talk		

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Reliability test- Orange dice

LITEON Liteon Electronics (Thailand) Co.,Ltd.				RQN : 2105004434 Product : N/D Device : LTD-482AC-08J Request date : 19-May-21 Requester : Supomrat K. # 6003		N/D Products Reliability test plan Subject: Trial run 02-AAS1 (C07SOS-RS)				
Numeric Display Products Stress test										
	Stress items	Test conditions	S/S (pc)	Read point	Plan		Actual		Result	Remark
					Start date	Finish date	Start date	Finish date		
Environmental test	Pre-condition	Solder 260°C, 5 Sec	44	2x	19-May-21	19-May-21	19-May-21	19-May-21	PASS	
	T/C Temperature Cycling	Temp. -35°C/ 25°C/ 105°C/ 25°C Dwell time 30/ 5/ 30/ 5 min	22	50 Cycles	20-May-21	22-May-21	20-May-21	22-May-21	PASS	
				100 Cycles	22-May-21	25-May-21	22-May-21	25-May-21	PASS	
	T/S Thermal shock	Temp. -35°C/ 105°C ± 5°C Dwell time 15min/ 15min	22	50 Cycles	20-May-21	22-May-21	20-May-21	22-May-21	PASS	
				100 Cycles	22-May-21	24-May-21	22-May-21	24-May-21	PASS	

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Product /Process Change Notification

Conclusion- Orange dice

- **Luminous Intensity**
 - Display product within spec.
- **Dominant Wavelength**
 - Display product within spec.
- **Light-up/Cross-talk** : Passed
- **Reliability test** : Passed

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Specification for Finish Good- Green dice

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25°C Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	-35°C to +85°C	
Solder Temperature: max 260°C for max 3sec at 1.6mm[1/16inch] below seating plane		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	I _f =10mA
Peak Emission Wavelength	λ _p		565		nm	I _f =20mA
Spectral Line Half-Width	Δλ		30		nm	I _f =20mA
Dominant Wavelength	λ _d		569		nm	I _f =20mA
Forward Voltage Per Segment	V _f	2.1	2.6		V	I _f =20mA
Reverse Current Per Segment	I _r			100	μA	V _r =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _f =10mA

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage) eye-response curve.

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Luminous Intensity and Dominant Wavelength- Green dice

Luminous Intensity, LTD-482G

UNIT: ucd

TEST CONDITION: IF = 10 mA

MEASURING EQUIPMENT: J17 TEKTRONIX

SPEC: Min = 800 ucd, Typ = 2200 ucd

SPEC. MIN = 6000cd, typ = 2200cd											
Tyntek						Epistar					
Digit	PRODUCT NO.					Digit	PRODUCT NO.				
	No.1	No.2	No.3	No.4	No.5		No.1	No.2	No.3	No.4	No.5
Luminous Intensiv	3014.6	3055.5	2885.4	3004.8	2930.6	Luminous Intensiv	3452.8	3533.4	3681.7	3457.7	3700.6

Result : Luminous Intensity within DS spec

Dominant Wavelength, LTD-482G

UNIT: nm

TEST CONDITION: 20mA

MEASURING EQUIPMENT: CAS-140B

SPEC: Typ, 569nm

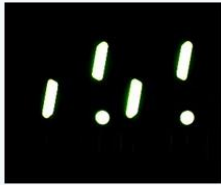
Tyntek						Epistar					
Digit	PRODUCT NO.					Digit	PRODUCT NO.				
	No.1	No.2	No.3	No.4	No.5		No.1	No.2	No.3	No.4	No.5
Dominant Wavelength	572.7	572.7	572.4	572.3	572.2	Dominant Wavelength	568.5	568.9	568.9	568.4	569.1

Result : Dominant Wavelength within DS spec

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Light-up/Cross-talk- Green dice

	Tyntek	Epistar
Light-up		
Cross-talk		

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Product /Process Change Notification

Reliability test- Green dice

LITEON Liteon Electronics (Thailand) Co.,Ltd.		RQN : 2102002426		N/D Products Reliability test plan Subject: Trial Run Dice C07SYG-RS							
		Product : N/D									
		Device : LTD-482G									
		Request date : 17-May-21									
		Requester : Suponrat K. # 6003									
Numeric Display Products Stress test											
Stess items		Test conditions		S/S (pc)	Read point	Plan		Actual		Result	Remark
						Start date	Finish date	Start date	Finish date		
Pre-condition		Solder 260°C, 5 Sec		44	2x						
Environmental test	T/C Temperature Cycling	Temp. -35°C/ 25°C/ 105°C/ 25°C Dwell time 30/ 5/ 30/ 5 min	44	50 Cycles		18-May-21	19-May-21	18-May-21	19-May-21	PASS	
				100 Cycles		19-May-21	22-May-21	19-May-21	22-May-21	PASS	
	T/S Thermal shock	Temp. -35°C/ 105°C ± 5°C Dwell time 15min/ 15min	44	50 Cycles		23-May-21	26-May-21	23-May-21	26-May-21	PASS	
				100 Cycles		19-May-21	21-May-21	19-May-21	21-May-21	PASS	
	SR Solder resistance	T.Sol = 260°C Soak time =10 Sec. ± 1 Sec 3 mm. from base of epoxy bulb	5	10 Sec		22-May-21	24-May-21	22-May-21	24-May-21	PASS	
											5 pcs (ND Product) 5 pcs measurement data
	SA Solderability	T.Sol = 245°C Soak time = 5 ± 0.5 sec	5	5 Sec		18-May-21	19-May-21	18-May-21	19-May-21	PASS	5 pcs (ND Product) 5 pcs go/no-go
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Conclusion- Green dice

- **Luminous Intensity**
 - Display product within spec.
- **Dominant Wavelength**
 - Display product within spec.
- **Light-up/Cross-talk** : Passed
- **Reliability test** : Passed

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Product /Process Change Notification

Specification of Display-Red dice

ABSOLUTE MAXIMUM RATING AT T_A=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25°C Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	-35°C to +85°C	
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C		

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	800	2200		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		635		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λ _d		623		nm	I _F =20mA
Forward Voltage, Per Segment	V _F		2.0	2.6	V	I _F =20mA
Reverse Current, Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio	I _v -m			2:1		I _F =10mA

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage) eye-response curve.

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Luminous Intensity and Dominant Wavelength-Red dice

Luminous Intensity,LTS-4802HR-07J

UNIT: ucd

TEST CONDITION: IF = 10 mA

MEASURING EQUIPMENT: J17 TEKTRONIX

SPEC: Min = 800ucd , Typ = 2200 ucd

Tyntek						Epistar					
Digit	PRODUCT NO.					Digit	PRODUCT NO.				
	No.1	No.2	No.3	No.4	No.5		No.1	No.2	No.3	No.4	No.5
Luminous Intensity	3341.0	3340.7	3342.1	3342.9	3340.1	Luminous Intensity	3940.4	3819.4	4188.2	4042.2	3800.1

Result : Luminous Intensity within DS spec

Dominant Wavelength,LTS-4802HR-07J

UNIT: nm

TEST CONDITION: 20mA

MEASURING EQUIPMENT: CAS-140B

SPEC: Typ = 623 nm

Tyntek						Epistar					
Digit	PRODUCT NO.					Digit	PRODUCT NO.				
	No.1	No.2	No.3	No.4	No.5		No.1	No.2	No.3	No.4	No.5
Dominant Wavelength	618.8	619.0	619.1	619.0	618.8	Dominant Wavelength	611.2	611.2	611.3	611.3	611.3

Result : Dominant Wavelength within DS spec

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Product /Process Change Notification

Light-up/Cross-talk-Red dice

	OTC	Epistar
Light-up		
Cross-talk		
Appearance		

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Reliability test-Red dice

LITEON Liteon Electronics (Thailand) Co.,Ltd.				RQN : 2105004593		N/D Products Reliability test plan					
				Product : N/D							
				Device : LTS-4802HR-07J							
				Request date : 17-May-21							
				Requester : Supomrat K. # 6003		Subject: Trial Run Dice C07SO-RS					
Numeric Display Products Stress test											
Stess items		Test conditions	S/S (pc)	Read point	Plan		Actual		Result	Remark	
					Start date	Finish date	Start date	Finish date			
Pre-condition		Solder 260°C, 5 Sec	44		18-May-21	19-May-21	18-May-21	19-May-21			
Environmental test	T/C Temperature Cycling	Temp. -35°C/ 25°C/ 105°C/ 25°C Dwell time 30/ 5/ 30/ 5 min	22	50 Cycles	19-May-21	22-May-21	19-May-21	22-May-21	PASS		
				100 Cycles	23-May-21	26-May-21	23-May-21	26-May-21	PASS		
	T/S Thermal shock	Temp. -35°C/ 105°C ± 5°C Dwell time 15min/ 15min	22	50 Cycles	19-May-21	21-May-21	19-May-21	21-May-21	PASS		
				100 Cycles	22-May-21	24-May-21	22-May-21	24-May-21	PASS		
	SR Solder resistance	T.Sol = 260°C Soak time =10 Sec. ± 1 Sec 3 mm. from base of epoxy bulb	5	10 Sec	18-May-21	19-May-21	18-May-21	19-May-21	PASS	5 pcs (ND Product) 5 pcs measurement data	
SA Solderability	T.Sol = 245°C Soak time = 5 ± 0.5 sec	5	5 Sec	18-May-21	19-May-21	18-May-21	19-May-21	PASS	5 pcs (ND Product) 5 pcs go/no-go		

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Product /Process Change Notification

Conclusion-Red dice

- **Luminous Intensity**
 - Display product within spec.
- **Dominant Wavelength**
 - Display product within spec.
- **Light-up/Cross-talk** : Passed
- **Reliability test** : Passed

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Specification for Finish Good- Yellow dice

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	60	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA
Continuous Forward Current Per Segment	20	mA
Derating Linear From 25°C Per Segment	0.27	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	-35°C to +85°C	
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2400		μcd	If=10mA
Peak Emission Wavelength	λp		585		nm	If=20mA
Spectral Line Half-Width	Δλ		35		nm	If=20mA
Dominant Wavelength	λd		588		nm	If=20 mA
Forward Voltage Per Segment	Vf		2.1	2.6	V	If=20 mA
Reverse Current Per Segment	Ir			100	μA	Vr=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		If=10 mA

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage) eye-response curve.

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Product /Process Change Notification

Luminous Intensity and Dominant Wavelength- Yellow dice

Luminous Intensity,LTS-5701AY
UNIT: ucd
TEST CONDITION: IF = 10 mA
MEASURING EQUIPMENT: J17 TEKTRONIX
SPEC: Min = 800ucd , Typ = 2400 ucd

Tyntek						Epistar					
Digit	PRODUCT NO.					Digit	PRODUCT NO.				
	No.1	No.2	No.3	No.4	No.5		No.1	No.2	No.3	No.4	No.5
Luminous Intensity	3509.7	3527.1	3624.7	3360.7	3678.0	Luminous Intensity	3859.7	3709.7	4097.1	3837.4	3862.9

Result : Luminous Intensity within DS spec

Dominant Wavelength,LTS-5701AY
UNIT: nm
TEST CONDITION: 20mA
MEASURING EQUIPMENT: CAS-140B
SPEC: Typ = 588 nm

Tyntek						Epistar					
Digit	PRODUCT NO.					Digit	PRODUCT NO.				
	No.1	No.2	No.3	No.4	No.5		No.1	No.2	No.3	No.4	No.5
Dominant Wavelength	587.0	587.4	587.2	586.9	587.1	Dominant Wavelength	587.9	587.9	587.9	587.8	587.8

Result : Dominant Wavelength within DS spec

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Light-up/Cross-talk- Yellow dice

	OTC	Epistar
Light-up		
Cross-talk		

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Product /Process Change Notification

Reliability test- Yellow dice

LITEON Liteon Electronics (Thailand) Co., Ltd.			RQN : 2104003785 Product : N/D Device : LTS-5721AY Request date : 21-Apr-21 Requester : Supornrat K. # 6003		N/D Products Reliability test plan Subject: LTS-5701AY Trial run Dice C07SYM-RS							
Numeric Display Products Stress test												
Stess items		Test conditions		S/S (pc)	Read point	Plan		Actual		Result	Remark	
						Start date	Finish date	Start date	Finish date			
Pre-condition		Solder 260°C, 5 Sec		44	2x							
Environmental test	T/C		Temp. -35°C/ 25°C/ 105°C/ 25°C		22	50 Cycles	1-May-21	2-May-21	1-May-21	2-May-21		
	Temperature Cycling		Dwell time 30/ 5/ 30/ 5 min			29-Apr-21	2-May-21	29-Apr-21	2-May-21	PASS		
						100 Cycles	3-May-21	6-May-21	3-May-21	6-May-21	PASS	
	T/S		Temp. -35°C/ 105°C ± 5°C		22	50 Cycles	29-Apr-21	1-May-21	29-Apr-21	1-May-21	PASS	
	Thermal shock		Dwell time 15min/ 15min			100 Cycles	2-May-21	4-May-21	2-May-21	4-May-21	PASS	
	SR		T.Sol = 260°C		5	10 Sec	3-May-21	4-May-21	3-May-21	4-May-21	PASS	5 pcs (ND Product) 5pc measurement data
	Solder resistance		Soak time = 10 Sec. ± 1 Sec 3 mm. from base of epoxy bulb									
SA		T.Sol = 245°C		5	5 Sec	3-May-21	4-May-21	3-May-21	4-May-21	PASS	5 pcs (ND Product) 5 pcs go/no-go	
Solderability		Soak time = 5 ± 0.5 sec										
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Conclusion- Yellow dice

- **Luminous Intensity**
 - Display product within spec.
- **Dominant Wavelength**
 - Display product within spec.
- **Light-up/Cross-talk** : Passed
- **Reliability test** : Passed

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