

## PRODUCT SPECIFICATION MOLEX LED HOLDER FOR CREE CXA20 ARRAY





## 1.0 SCOPE

The Molex LED Holder for the CREE CXA20 Array is an electrical connector and mechanical holder to simplify installation of the CREE CXA20 Array without solder connections. The Holder is available with or without a clear cover to protect the LED Array.

## 2.0 PRODUCT DESCRIPTION

### 2.1 MOLEX LED HOLDER PART NUMBERS

This specification covers the performance requirements and test methods for the following products listed by part numbers:

180220-0000	LED Holder without Cover Lens
180220-0001	LED Holder With Cover Lens

### 2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Dimensions: See sales drawing SD-180220-001. Material: RoHs compliant materials.

### 2.3 SAFETY AGENCY APPROVALS

UL Recognized to UL 496 c-UL Recognized to CSA-C22.2 No. 43 (2008) Rated 600V

UL File Number: E345583, UL-OLFB2

## 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Refer to the appropriate sales drawings, the website Molex.com and other sections of this specification for the necessary referenced documents and specifications.

3.1 SD-180220-001, CREE CXA20 Array Holder Sales Drawing

REVISION:	ECR/ECN INFORMATION:	TITLE: PRODUCT SPECIFICATION			SHEET No.
٨	<u>EC No:</u> 10563721	MOLEX LED HOLDER FOR CREE			<b>2</b> of <b>7</b>
Α	<u>DATE:</u> 09/10/2012		CXA20 ARRAY		2017
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
PS-180220-000		C. CARRANZA	D. Achammer	D. McG	Gowan
				FILENA	ME: PS75431r0.DOC



## 4.0 RATINGS

#### 4.1 VOLTAGE

300 Volts DC maximum

#### 4.2 CURRENT

2.5 Amp maximum continuous current3.0 Amp Maximum peak current (max. 10% duty Cycle)

#### 4.3 TEMPERATURE

Operating: -40°C to +85°C (Recommended), +105°C (MAX) Non-operating: -40°C to +105°C

#### 4.4 DURABILITY

5 cycles mate/un-mate (wire trap interface)

## 5.0 QUALIFICATION

Laboratory condition and sample selection are in accordance with EIA-364-1000.

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### 6.0 PERFORMANCE

### 6.1 MECHANICAL PERFORMANCE

ITEM	TEST CONDITION	REQUIREMENT
CLEAR COVER RETENTION	APPLY STATIC LOAD UNTIL CLEAR COVER SEPARATES FROM HOLDER	MIN. 20 N VERIFY NO DAMAGE
WIRE TRAP COVER RETENSION	APPLY STATIC LOAD UNTIL COVER SEPARATES FROM HOLDER	MIN. 20 N
WIRE RETENTION	APPLY STATIC LOAD UNTIL WIRE SEPARATES FROM HOLDER	MIN. 10 N
DROP TEST	DROP 3 TIMES (3 DIRECTIONS) FROM HEIGHT OF 1 METER ONTO CONCRETE OR EQUIVALENT SURFACE	NO DAMAGE.

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### 6.2 ENVIRONMENTAL PERFORMANCE

ITEM	TEST CONDITION	REQUIREMENT	
TEMPERATURE LIFE (EIA-364-17)	Fasten Holder to Heatsink with LED. Insert Wires in Wire Traps. Expose 180 hours at 105°C	Max. 20 mohm Contact Resistance Change per Interface	
TEMPERATURE SHOCK/CYCLIC TEMPERATURE & HUMIDITY (EIA-364-23 & 31)	Fasten Holder to Heatsink with LED. Insert Wires in Wire Traps. Expose to -55/85°C, 30 Minute Dwell, 10 Cycles Expose to Thermal Cycle 25°C/80%RH to 65°C/50%RH. 0.5 Hour Ramp, 1.0 Hour Dwell, 24 Cycles	aps. 30 Max. 20 mohm Contact les Resistance Change cle per Interface	
VIBRATION (EIA-364-28)	Fasten Holder to Heatsink with LED. Insert Wires in Wire Traps. Expose to Random 3.1G Vibration, 15 Minutes per Each Axis (X, Y, & Z)	Max. 20 mohm Contact Resistance Change per Interface	
THERMAL CYCLING (EIA-364-1000)	Fasten Holder to Heatsink with LED. Insert Wires in Wire Traps. Expose to +15/+85°C, 30 Minute Dwell, 500 Cycles	Max. 20 mohm Contact Resistance Change per Interface	
DUST EXPOSURE (EIA-364-91)	Fasten Holder to Heatsink with LED. Insert Wires in Wire Traps. Expose to Dust per EIA-364- 91 Table A.1 (Benign). 1 Hr. @ 360 cfm (unmated)	Max. 20 mohm Contact Resistance Change	
BION: ECR/ECN INFORMATION: EC No:10563721			
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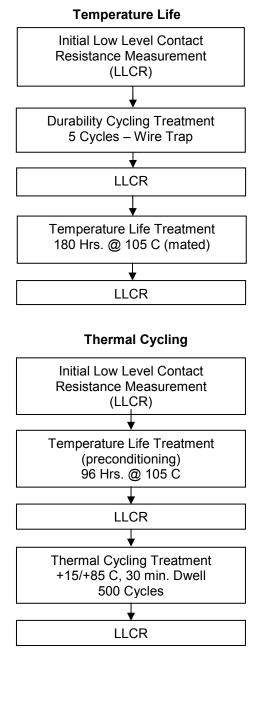
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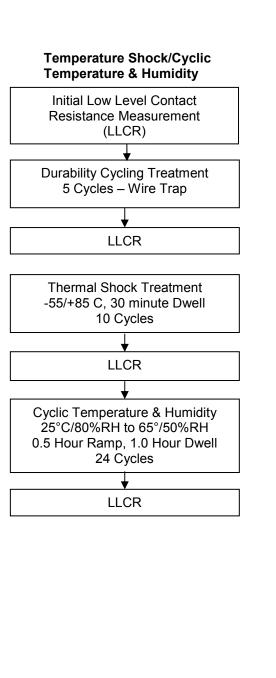
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### 7.0 TEST SEQUENCE

#### 7.1 Reliability Test Sequences:

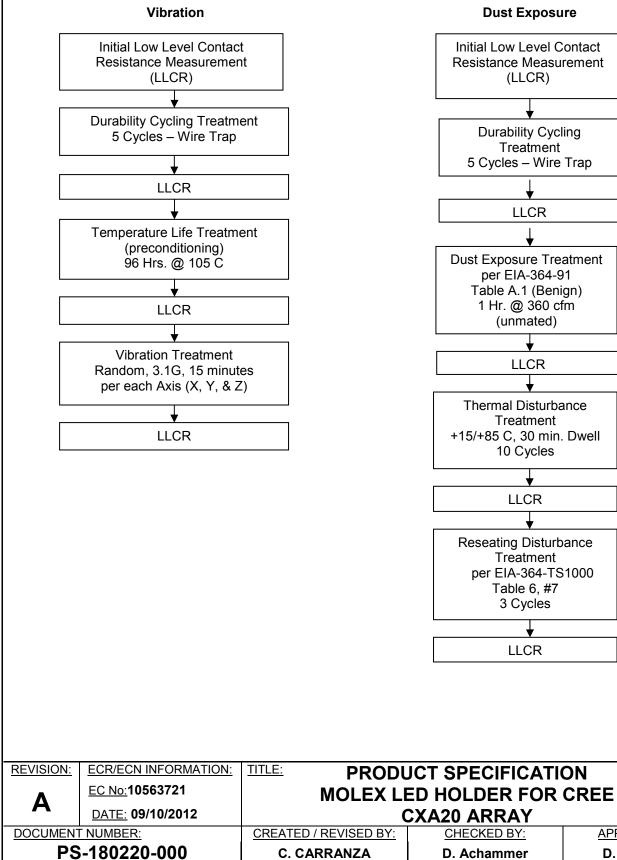


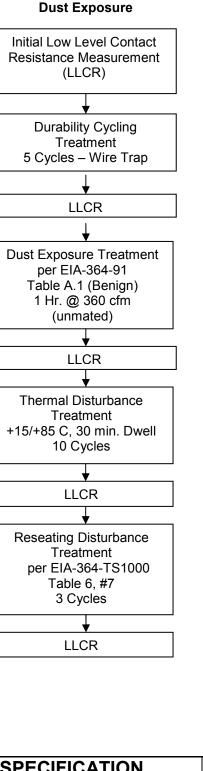


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7.1 Reliability Test Sequences (continued):





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APPROVED BY:

D. McGowan

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