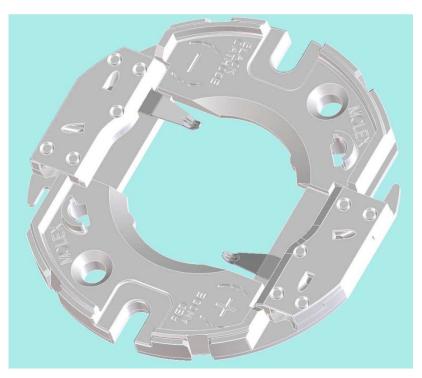


PRODUCT SPECIFICATION MOLEX LED HOLDER FOR CREE CXA20 ARRAY



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1	<u>DATE:</u> 03/15/2011	_	ED HOLDER FOR CXA20 ARRAY	CREE	1 of 7
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
PS-180220-000		D. McGowan	D. Achammer	D. McC	Bowan
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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
180220-0001	LED Holder With Cover

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Dimensions: See sales drawing SD-180220-000. Material: RoHs compliant materials.

2.3 SAFETY AGENCY APPROVALS

UL File Number: Pending

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-180220-000, CREE CXA20 Array Holder Sales Drawing

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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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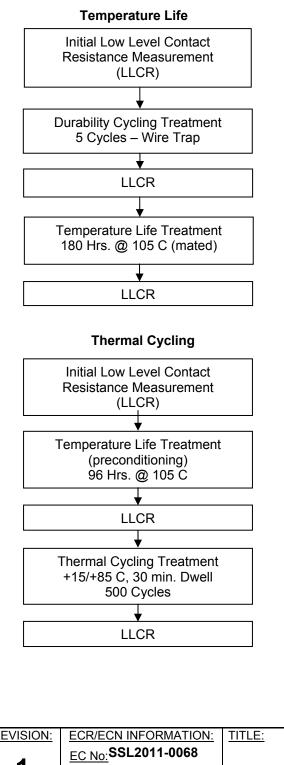
6.2 ENVIRONMENTAL PERFORMANCE

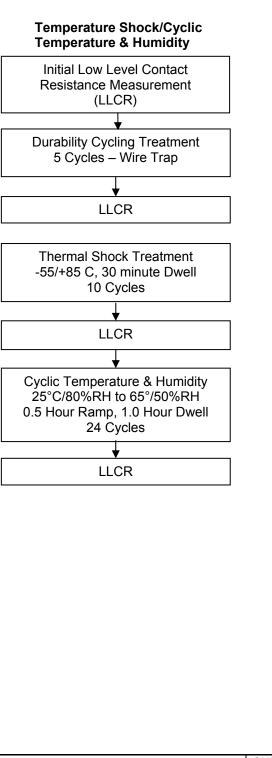
	ITEM	TEST CONDITION	REQU	REMENT			
	TEMPERATURE LIFE (EIA-364-17)	Fasten Holder to Heats with LED. Insert Wires in Wire Tra Expose 180 hours at 10	ps. Resistar	ohm Contact ice Change nterface			
	TEMPERATURE SHOCK/CYCLIC TEMPERATURE & HUMIDITY (EIA-364-23 & 31)	Fasten Holder to Heats with LED. Insert Wires in Wire Tra Expose to -55/85°C, 3 Minute Dwell, 10 Cycle Expose to Thermal Cyc 25°C/80%RH to 65°C/50%RH. 0.5 Hour Ramp, 1.0 Ho Dwell, 24 Cycles	ps. 0 Max. 20 m es Resistar cle per li	iohm Contact ice Change nterface			
	VIBRATION (EIA-364-28)	Fasten Holder to Heats with LED. Insert Wires in Wire Tra Expose to Random 3.1 Vibration, 15 Minutes p Each Axis (X, Y, & Z)	Max. 20 m G Resistan per per li	iohm Contact ice Change nterface			
	THERMAL CYCLING (EIA-364-1000)	Fasten Holder to Heats with LED. Insert Wires in Wire Tra Expose to +15/+85°C, 3 Minute Dwell, 500 Cycl	Max. 20 m ps. Resistan 30 per li	ohm Contact ice Change nterface			
	DUST EXPOSURE (EIA-364-91)	Fasten Holder to Heats with LED. Insert Wires in Wire Tra Expose to Dust per EIA-3 91 Table A.1 (Benign). 1 @ 360 cfm (unmated	ps. Max. 20 m 364- Resistan Hr. per li	iohm Contact ice Change nterface			
<u>REVI</u>	SION: ECR/ECN INFORMATION EC No: SSL2011-0068		CT SPECIFICATI	-			
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	PS-180220-000	D. McGowan	D. Achammer	D. McGowan			
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7.0 TEST SEQUENCE

7.1 Reliability Test Sequences:

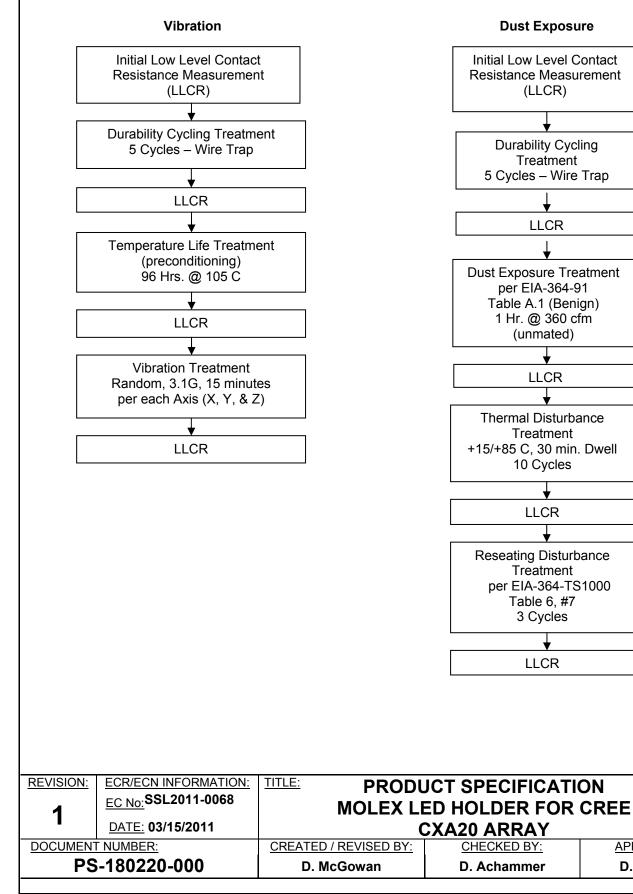




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7.1 Reliability Test Sequences (continued):



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